



RV College of Engineering®

Autonomous
Institution Affiliated
to Visvesvaraya
Technological
University, Belagavi

Approved by AICTE
New Delhi



RVCE-Boston Centre of Excellence (CoE)

AI Research and Business Solutions

ACTIVITIES

(Aug. 2022 – Apr. 2023)



Inauguration by Shri. Dev Tyagi,
Co-Founder, Boston Ltd on 25th
August 2022



Executives from Boston with
Principal and Vice-Principal



HoD's and Executives during the
Inauguration

Boston-RVCE Centre for AI-Research and Business Solutions

Five Verticals of Operations



INNOVATION



INCUBATION



TRAINING



MENTORING



RESEARCH

- Launched Six-month Industry Certification Course in Data Science covering complete data science lifecycle (Rs. 60,000 + GST).
- Hosts Graphcore IPU-M2000 - POD4 machine (sponsored by Boston Ltd.), with 1 petaflop (10^{15} Flops) AI compute power and a host node server infrastructure, to work on AI research and industrial problems.
- Provides industrial mentorship and gives bootstrapping services to launch the ideas as workable products and business services.
- Works on inter-disciplinary/multi-disciplinary problems in FinTech, AgriTech, Healthcare, Genomics, Smart cities, and other domains.

GRAPHCORE



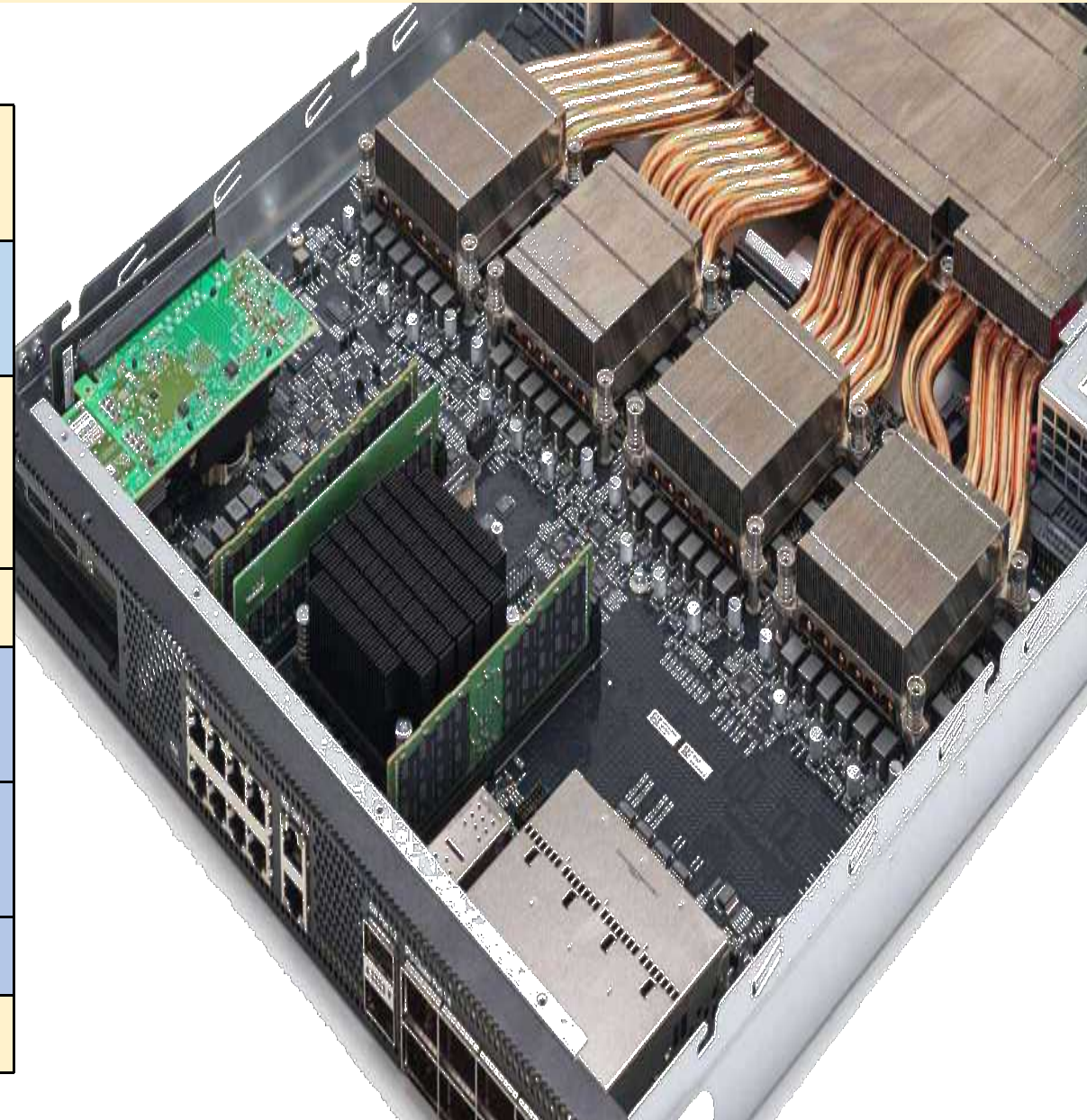
BOSTON
Servers | Storage | Solutions



1
oneAPI

Graphcore - Intelligence Processing Unit (IPU)

ML frameworks	TensorFlow, Keras, PyTorch, Pytorch Lightning, HuggingFace, PaddlePaddle, Halo, and ONNX
Deployment Options	Bare metal (Linux), VM (HyperV), containers (Docker)
Host-Links	RDMA based disaggregation between a host and IPU over 100Gbps RoCEv2 NIC, using the IPU over Fabric (IPUoF) protocol
	Host-to-IPU ratios supported: 1:16 up to 1:64
Graphcore Communication Library (GCL)	IPU-optimized communication and collective library integrated with the Poplar SDK stack
	Support all-reduce (sum, max), all-gather, reduce, broadcast
	Scale at near linear performance to 64k IPUs
PopVision	Visualization and analysis tools





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Certificate Course in Data Science

For More Details Visit
<https://rvce.edu.in/certificate-course-data-science>

Contact Person
Dr. B. Sathish Babu - Professor and HoD, Dept. of AIML, RVCE
Ph. 9844488329/ 9941124847
E-mail: hod.ai@rvce.edu.in, bta@bostonindia.in

Memorandum of Understanding (MoU) to Conduct Certification Course in Data Science – 20th May 2022

Department of Artificial Intelligence and Machine Learning

Flyers and Brochures

Certificate Course in Data Science

Program Content

- 1 Data Science Life Cycle
- 2 Big Data & Data Engineering
- 3 Data Visualization
- 4 Analytics Foundation and Advanced Statistics
- 5 Data Mining
- 6 Machine Learning
- 7 Deep Learning

Highlights of the Program

Features of the Program

- Designed by Industry Experts
- Both online and Offline Classes
- Content delivery by Industry and Academic Experts
- Mentoring by Industry Experts
- Live Projects as a Capstone Project.

Who can Apply?

- Individuals with a bachelor's degree and keen on learning AI and Data science
- IT/ Working professionals looking for a career transition and upgradation
- Freshers/ Students, who aspire to build their career in the field of Artificial Intelligence and Data science
- Project Managers and Business Analysts

Programming languages & Tools Covered

python, MySQL, ANACONDA, Power BI, TensorFlow, + a b l e a u, PyTorch, hadoop

Career Opportunities

Data Analyst, Data Engineer, Data Scientist, Data Architect, Database Administrator, Machine Learning Engineer, Business Analyst, Data Analytics Manager, Business Intelligence Developer

Course Duration: Six Months
Course Fee: Rs.60000/- + GST

For more details Visit : <https://rvce.edu.in/certificate-course-data-science>

BOSTON
TRAINING ACADEMY



ADMISSIONS ARE NOW OPEN

CERTIFICATE IN DATA SCIENCE

LEARN FROM INDUSTRY EXPERTS & RVCE

RV College of Engineering (RVCE), Bengaluru, in association with industry partner Boston India Pvt.Ltd, developed a high-involvement career-oriented certification course in Data Science. The syllabus covers the complete life cycle of data science by using innovative teaching techniques and cutting edge technologies.

- ▶ **Expected Outcome:** Professional expertise in the Data Science field
- ▶ **Target Audience:** Working professionals & students interested in a career in Data Science
- ▶ **Delivery Method:** Live online classes on weekends, and 30% practical learning using AI tools on campus
- ▶ **Aim:** Solve real-time use cases in capstone projects using industry data

LAUNCH DATE: 06TH AUGUST 2022

CERTIFICATION: JOINT CERTIFICATION WITH INDUSTRY

DURATION: SIX MONTHS

COURSE FEE: ₹ 60,000/- + GST

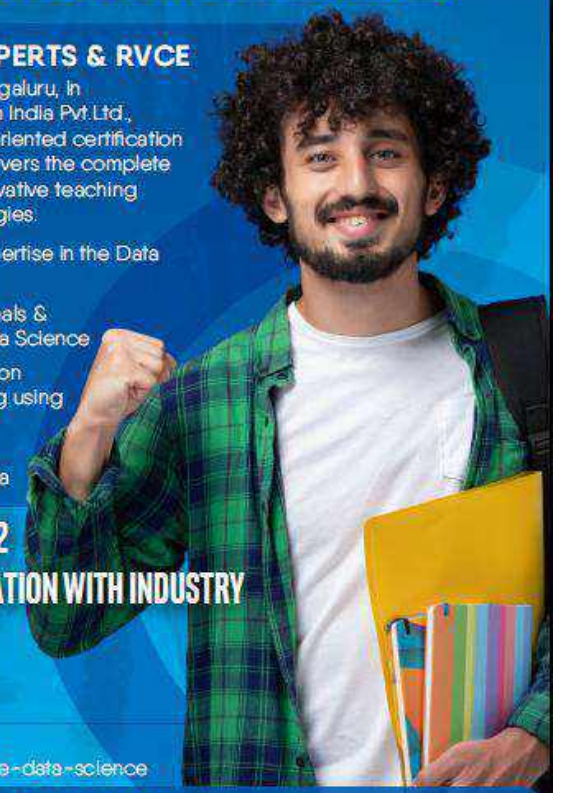
Please visit for all course information:
<https://rvce.edu.in/certificate-course-data-science>

FOR MORE DETAILS, CONTACT:

Dr. B. Sathish Babu - Professor and HOD, Dept. of AIML, RVCE, Bengaluru - 90

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Data Science webpage hosted on RVCE website

Rashtreeya Sikshana Samithi Trust

R V College of Engineering

Autonomous Institution affiliated to Visvesvaraya Technological University, Belagavi
Approved By AICTE, New Delhi, Accredited By NBA, New Delhi


Since 1963

Admission to BE Programs under Management Quota for the year 2023-2024 Batch RVCE TENDERS

- Home
- Principal
- About Us
- Key Executives
- Infrastructure
- Admission
- Departments
- Research @ RVCE
- Incubation Center
- Industry Institute Interaction
- Placement
- Achievements
- Library
- NCC / NSS
- Student Clubs
- Media Says
- Sports
- Cultural
- Contact Us
- Career Opportunity
- NBA Status as on
- stitute-interaction-cell

Home

Certificate Course in Data Science



Download: Flyer [Click Here to register for the Free Orientation for Second Batch](#)

About RVCE and Boston IT Solutions

RV College of Engineering (RVCE) established in 1963 is one of the earliest self-financing engineering colleges in the country. The Institution is run by Rashtreeya Sikshana Samithi Trust (RSST) a not-for-profit Trust. RVCE is today recognized as one of India's leading technical institutions. It's rated among the top five self-financing Engineering colleges in the country. Currently, the Institution offers 16 Bachelor's, 16 Master's Programs and all the departments have research centers, affiliated to Visvesvaraya Technological University (VTU), Belagavi. The Institution is Ranked 70th in the Country by the National Institutional Ranking Framework (NIRF) during 2019-20 and QS-IGUAGE-DIAMOND University Rating (2021-2024). Most of the UG programs and eligible M, Tech, & MCA programs have been accredited by NBA multiple times.

Data Science Course Promotion Activities



BOSTON
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ADMISSION OPEN

RV College of Engineering (RVCE), Bengaluru,
In association with Industry partner
Boston India Pvt.Ltd.

CERTIFICATE IN DATA SCIENCE

LAUNCH DATE: 06TH AUGUST 2022
CERTIFICATION: JOINT CERTIFICATION WITH INDUSTRY
DURATION: SIX MONTHS

SIGN UP TODAY
FREE ONLINE ORIENTATION LECTURE
ON JULY 24TH 2022 AT 11 AM

FOR MORE DETAILS, CONTACT:
Dr. B. Sathish Babu-Professor and HOD, Dept. of AIML, RVCE, Bengaluru - 90
P: +91 98 4448 8329 | E: hod.ai@rvce.edu.in | W: www.rvce.edu.in
P: +91 63 8274 9056 / 99 4112 4847 | E: bta@bostonindia.in | W: www.bostonindia.in
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ADMISSIONS OPEN

BATCH 2

CERTIFICATE IN DATA SCIENCE

ORIENTATION DATE: 30TH OCTOBER 2022


- Successful rolling of batch 1
- 100% On campus classes option
- Real time capstone projects

Get Certified

Course Start Date: 26th November 2022
Duration: 6 months | Course Fees: ₹ 60,000/-
For Details Contact: hod.ai@rvce.edu.in/bta@bostonindia.in



Data Science Course Promotion Activities



BOSTON
TRAINING ACADEMY

**Free Online Tech-Talk
on Data Science and
Machine Learning - A Need
of the Hour**

6th November 2022
11 AM - 12 PM



Laxmi Nageswari
Global Lead -AI Education & Solutions
Boston Limited, UK

Dr. Sathish Babu B, Ph.D (IISc.)
Professor and Head
Dept. of AIML, RVCE



Scan to Register



Mailbox

hod.ai@rvce.edu.in | bta@bostonindia.in

For More Information Visit

<https://rvce.edu.in/certificate-course-data-science>



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BOSTON
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MLOPS TECH-TALK

**A NEED OF THE HOUR
FROM THE INDUSTRY EXPERTS
ON THE PROCESSES OF DEVELOPING
THE ML MODEL**

03 DECEMBER 2022 **04:00PM - 05:00PM**

For Details Contact: hod.ai@rvce.edu.in | bta@bostonindia.in



SCAN HERE TO
ENROLL NOW

Data Science Course Promotion Activities

ANANDA SOCIAL & EDUCATION TRUST
M R AMBEDKAR DENTAL COLLEGE & HOSPITAL
IQAC INITIATIVE
IN ASSOCIATION WITH DEPARTMENT OF DENTAL EDUCATION

FUTURE'S DENTISTRY

APPLICATION OF ARTIFICIAL INTELLIGENCE IN DENTISTRY
TUESDAY, OCTOBER 18 2022

RESOURCE PERSONS



DR. B. SATHISH BABU
PROFESSOR & HEAD,
DEPARTMENT OF ARTIFICIAL INTELLIGENCE
AND MACHINE LEARNING,
RVCC, BENGALURU



PROF. SOMESH NANDI
PROFESSOR,
DEPARTMENT OF ARTIFICIAL INTELLIGENCE
AND MACHINE LEARNING,
RVCC, BENGALURU



10AM - 3 PM



AUDITORIUM

M R AMBEDKAR DENTAL COLLEGE & HOSPITAL,
BENGALURU



M R Ambedkar
Dental College

Students and
Faculty of Dental
College

18/10/2022

Data Science Course Promotion Activities



RR Institute of
Technology

Students and
Faculty of Business
Administration

23/01/2023

Certificate Course in Data Science – Batch #1 (Aug. 2022 – Mar. 2023)



Harish Rajanna
Astom Transport India Ltd



Dr. P. Bhanumathi,
Assoc. Professor,
RIM



Arun Kumar,
Saint Gobain India pvt
limited



Vinayak S Joshi
Oracle



Bhoomika Nagesh
Heraizen technologies



Jayashree,
Asst. Professor, CIT



Naveen M K
COMVIVA



Soumya S, Asst. Prof.
BNMIT



Rahul Arya
Samartha Infosolution



Varalaksmi B D, Asst.
Professor, AIT

Certificate Course in Data Science – Batch #2 (Feb. 2023 – Aug. 2023)



Yuktha T D
Graduate



K B Chidananda
Alstom Transport India Ltd



Radhika Honnatti
Graduate



Bhaavana S
Graduate



Rahul Roy
Graduate



Shivalingappa
Graduate

Number of Students registered: 16

Two Days Workshop on Fundamentals of Deep Learning Models with Accelerated Computing– 9th-10th Mar. 2023



Students and Faculty of RVCE
Number of Participants: 27

Department of Artificial Intelligence and Machine Learning

Intel OneAPI and IPU Workshop – 31/03/2023



The banner features logos for BOSTON (Servers | Storage | Solutions), 30th Anniversary, R.V. College of Engineering, and Intel Software. The main text reads: 'REGISTER FOR INDUSTRY WORKSHOP ON Intel's oneAPI ToolKit Register Now'. It specifies the date as Friday, 31 MAR 2023, at 10:00 AM, and the location as R.V. College of Engineering, Mysore Road, RV Vidyaniketan, Post, Bengaluru, Karnataka 540059. The website www.rvce.edu.in is also listed.

Heads of Departments and Faculty of Computer Science, Information Science, Artificial Intelligence, Data Science, Cyber Security, and other IT and Circuit Branches.

You are invited for a half-day industry workshop at RV College of Engineering Campus and get an experience of working with Intel oneAPI Toolkit.

Coverage of the workshop:

Intel® oneAPI Toolkit has marked a new era of heterogeneous and accelerated computing. All industries are moving towards building and deploying intelligent and automated business applications by integrating trusted and reliable practices. It is the time to augment your skills on accelerated computing platforms with the growing popularity of IoT, Big Data, Data Science, and Artificial Intelligence (AI).

Key Takeaways:

- Live experience on using Intel® oneAPI Toolkits.
- Knowledge of building large-scale and real-time applications with Intel® oneAPI



Faculty from Various Engineering Colleges in Bangalore
Number of Participants: 25

2021 Batch Students 3-Weeks Internship conducted at CoE (21/11/2022 – 10/12/2022)

- Technical skills

Python - Data analysis: Numpy, Pandas, Matplotlib, Seaborn

Python - Machine Learning: Sklearn

Python - Deep Learning: CNN models and RNN models

Python - Natural Language Processing: NLTK, SPACY

- Modules and Problems

M1: Intent Analysis

1. Chat bot for collecting medical data by interrogation
2. Medical Data Summarization
3. Pesticides recommender system
4. Fake news identification

M2: Security Analysis

1. Secure voice assistant device
2. Identifying malicious behaviours
3. Information monitoring for sensitivity analysis
4. Malware and Spyware detection
5. Network Intrusion Detection
6. Building prediction models using cognitive computing
7. Crime hotspots identification

M3: Process Analysis

1. Business Decision Process Analysis
2. Inventory Workflow Analysis
3. Academic Process Analysis
4. Product Quality Analysis
5. ML-based quality testing
6. Shop-floor optimization
7. Machine breakdown prediction

M4: Business Analysis

1. Customer Churn analysis
2. Recommendation Solutions for Food-Tech and Edu-Tech companies
3. Crop-insurance estimators
4. Price Optimization analysis
5. Stock Market Data Analysis

M5: Deep Learning/Reinforcement learning Applications

1. Predicting audio/text sequence
2. Child growth prediction
3. Crop health analysis and disease identification
4. Implant condition predictions
5. Automatic annotation of spatial data
6. Hidden pattern identification in genomics data
7. Civil structures health analysis
8. Driver Drowsiness Detection
9. Image Caption Generator/annotations

- **Number of Students registered: 62**

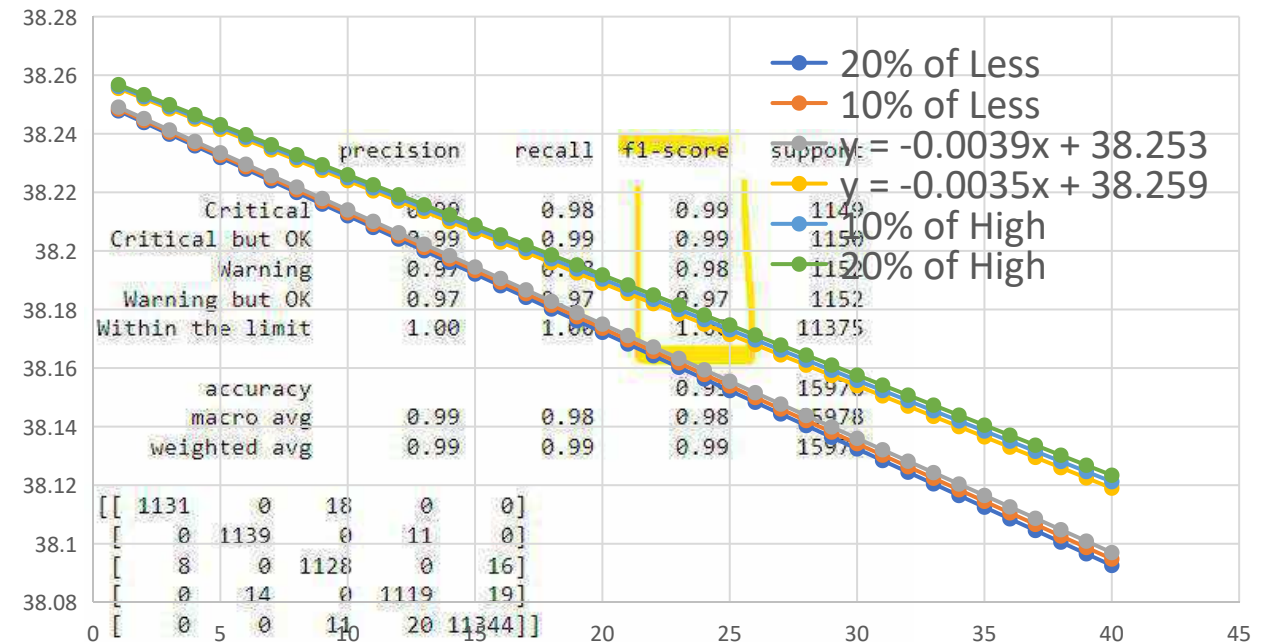
- **Branches: AS, AI, EC, CS, ET, CH**

- **Number of projects guided: 14**

- **Company** - BullWork Mobility
- **Duration of the Project** - 20 weeks
- **Title of the work** - DL model for Plant Health Monitoring
- **Funding:** Rs.3,00,000/-
- **Faculty (AIML Dept.):**
 - Dr. B. Sathish Babu
 - Dr. Vijayalakshmi M N
 - Prof. Narasimha Swamy
- **Students (AIML Dept.):**
 - Subhash Gupta
 - OM Mangalgi



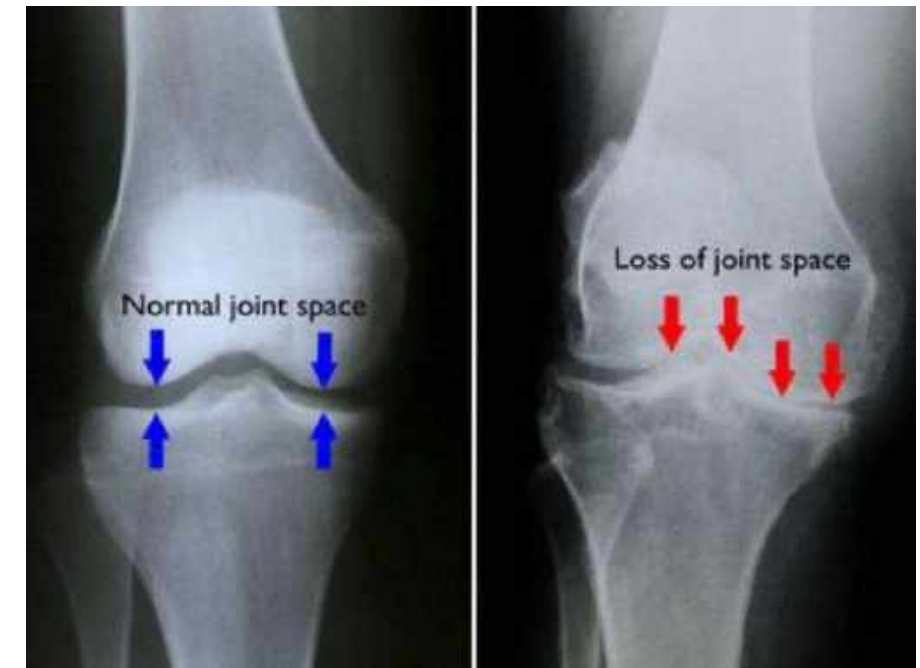
- **Company** - Toyota Industries Engine India Pvt. Ltd.
- **Duration of the Project** - 12 Months (Completed)
- **Title of the work** - Implementation Of Machine Learning Solution for GD Engines drilling operation
- **Funding:** Rs.1,56,000/-
- **Faculty :**
 - Dr. B. Sathish Babu (PI-AIML)
 - Dr. Sridhar (Mech.)
 - Dr. Gangadhar (Mech.)
- **Students:**
 - Ajay Brightson (III Sem. AIML)
 - Hrithik (V Sem. CSE)



- **Company** - Saint-Gobain Gyproc
- **Duration of the Project** - 02 Months
- **Title of the work** - Implementation of Machine Learning Solution for predicting moisture correction factor
- **Funding:** Joint research project
- **Faculty :**
 - Dr. B. Sathish Babu
- **Students:**
 - Arun Kumar (Saint-Gobain Gyproc)
 - Ajay Brightson (III Sem. AIML)
 - Swarna A N (III Sem. AIML)



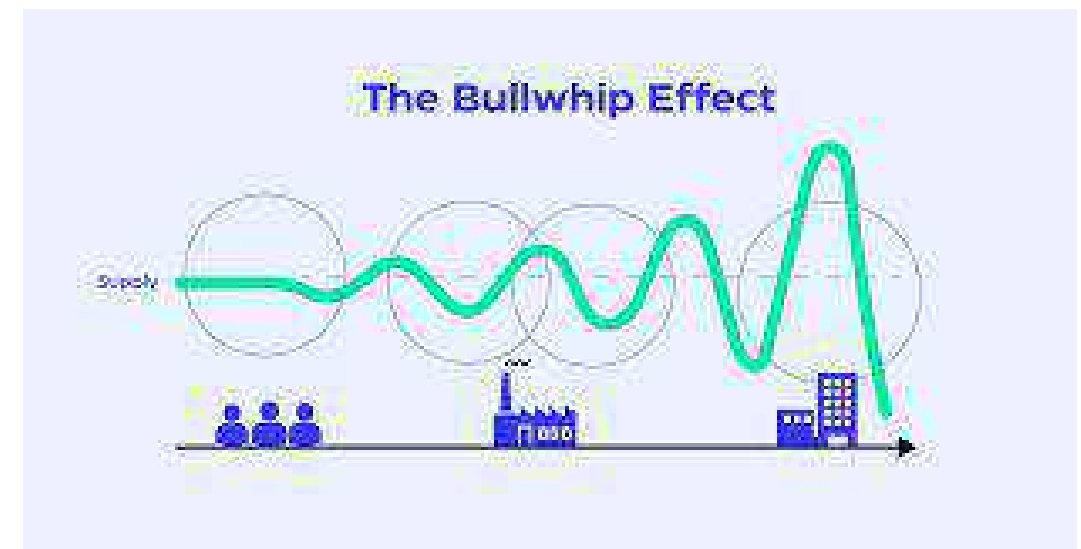
- **Group Name** - Medical Image Processing
- **Title of the work** - Implementation Of Deep Learning based segmentation for knee osteoarthritis
- **Type of work:** Research
- **Faculty :**
 - Dr. B. Sathish Babu
 - Mrs. Revathi S A (Research Scholar)
- **Students (III Sem. AIML):**
 - Shivaprasad
 - Mohammad Ali
 - Naveen
 - Kumar Aryan
 - Ganeshprasad



- **Group Name** - AI in Dentistry
- **Collaborating Institute:** M R Ambedkar Dental College, Bangalore
- **Area:** Application of DL models in dentistry, training and consultancy, joint research
- **Faculty:**
 - Dr. B. Sathish Babu
 - Prof. Somesh Nandi
- **Students (III Sem. AIML):**
 - Prajwal
 - Sakshi Bagali
 - Ajay Brightson
 - Naveen
 - Mohammad Ali
 - Shivaprasad



- **Group Name** - E-Mobility Supply Chain Management
- **Areas of work:** Demand forecasting, inventory management and supplier selection
- **Faculty:**
 - Dr. K N Subramanya
 - Dr. B. Sathish Babu
- **Students (III Sem. AIML):**
 - Mohammad Ali
 - Dheeraj Anna
 - Karthik Sai (VIII Sem. Mech)
 - Akshay Alva
 - Aayaan Hasnain
 - Ayush Goyal
 - Anagha Casaba



- **Group Name** - Conversational Chatbot
- **Title of the work** - Indoor Navigation
- **Type of work:** Project
- **Faculty :**
 - Prof. Narasimha Swamy S
- **Students (III Sem. AIML):**
 - Aayaan Hasnain
 - Akshay Alva

