



## Industry Certified Internship

# Center of Excellence in AI Research and Business Solutions

## *Internship Modules for Undergraduate Students*

- **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
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#### **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

#### **For Further Information, Contact**

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