

# ITTYAVIRA C ABRAHAM

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## PROFESSIONAL SUMMARY

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MCA graduate specializing in Artificial Intelligence and Machine Learning with hands-on experience in time-series forecasting, deep learning, and NLP systems. Proficient in Python, TensorFlow, PyTorch, and Hugging Face, with practical exposure to model deployment using Docker and cloud platforms such as GCP and Azure. Passionate about building scalable, data-driven AI solutions that deliver measurable real-world impact.

## SKILLS

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**AI/ML/DL:** TensorFlow, PyTorch, Scikit-learn, XGBoost, Neural Networks, OpenCV

**GenAI & NLP:** Transformers, Hugging Face, LangChain, LLM Fine-Tuning, RAG, BERT, GPT

**Data Science:** EDA, Feature Engineering, Statistical Analysis, Time Series Forecasting, Visualization

**Cloud:** GCP, Azure, Docker, Model Deployment

**Programming:** Python, SQL

**Databases:** PostgreSQL, MongoDB (NoSQL)

**Web Development:** HTML, CSS, SASS, JavaScript, React

**Backend Frameworks:** Django, Flask

**Version Control:** Git, GitHub

## PROJECTS

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### Predicting Safety Stocks using Machine Learning

- Developed a time-series forecasting model using XGBoost, SARIMA, and LSTM to predict safety stock levels.
- Used historical demand and lead-time data to optimize inventory levels and reduce stockouts.
- Improved prediction accuracy by 12% compared to baseline regression model.

### BERT-based News Classifier

- Built a deep learning-based BERT model for multi-class news classification.
- Preprocessed and tokenized text using Hugging Face Transformers.
- Fine-tuned the model and evaluated performance using F1-score and confusion matrix.

## PROFESSIONAL EXPERIENCE

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### **AI/ML Intern – Edunet Foundations (AICTE Internship)**

**Apr 2025 – May 2025 | Remote**

- Applied supervised and unsupervised learning techniques using Azure AI services.
- Worked on AI-based problem solving under industry mentorship.
- Completed internship under a collaborative initiative by AICTE and Microsoft.

## EDUCATION

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### **Master of Computer Applications (Artificial Intelligence)**

Amrita Vishwa Vidyapeetham (Amrita Ahead), Coimbatore, 2023 – 2025

### **Bachelor of Computer Applications**

IFIM College, Bengaluru, 2019 – 2023

## CERTIFICATION

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- Microsoft AI & ML Engineering - Coursera (Azure, ML Algorithms, Deployment) - 2025**
- IBM Generative AI Engineering with LLMs - Coursera (Transformers, BERT, RAG, LangChain) - 2025**