

# BANDLAPALLI ROSHAN BABU

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## SUMMARY

M.Tech student in Artificial Intelligence & Data Science specializing in **AI Engineering, LLMs, Deep Learning, NLP, and Quantum ML (secondary)**. Skilled in building end-to-end AI applications, hybrid pipelines, and intelligent systems. Active contributor as a **Perplexity Campus Ambassador** and selected for the **Qiskit Advocate Program (2025)**.

## EDUCATION

- **Mahindra University** Aug 2024 – Present  
M.Tech in Artificial Intelligence & Data Science, CGPA: 7.38, Hyderabad
- **Presidency University** Jun 2020 – May 2024  
B.Tech in Computer Science (AI & ML), CGPA: 8.51, Bangalore

## SKILLS

- **Programming:** Python, Java, SQL
- **Deep Learning:** PyTorch, TensorFlow, Keras; CNNs, RNNs, Transformers, GANs
- **Machine Learning:** Scikit-learn, Pandas, NumPy; Classification, Clustering
- **NLP/LLMs:** Tokenization, Sentiment, BiLSTM, Transformers, LangChain, LangGraph
- **Quantum ML:** Qiskit, Quantum Circuits, Hybrid Models
- **Tools:** Streamlit, Jupyter, Git

## EXPERIENCE

- **Research Intern — Lloyd's Bank, Mahindra University** Aug 2025 – Present  
Quantum-based face detection & recognition integrating computer vision with QML.
- **Perplexity Campus Ambassador — Volunteer** Aug 2025 – Present  
Promoting AI literacy, engaging peers with Perplexity AI tools.
- **Machine Learning Intern — Bharat Intern** Oct 2023 – Nov 2023  
Developed predictive models for house pricing, wine quality, and iris classification.
- **ML Internship Training — Skill Vertex** May 2023 – Jun 2023  
Implemented ML algorithms and automated preprocessing scripts in Python.

## PROJECTS

- **Human-in-the-Loop Generative AI App (LLMs)** — Built with LangChain, Streamlit for interactive AI workflows.
- **QA Agent with LangGraph** — Designed intelligent query answering using LLMs and LangGraph.
- **Multilingual Customer Support Chatbot (NLP)** — Multilingual chatbot using Transformers with Python backend.
- **Emotion Detection (NLP)** — Implemented BiLSTM with GloVe embeddings for multi-class recognition.
- **Building an ANN from Scratch (DL)** — Implemented backpropagation & optimization without libraries.
- **Face Mask Detection (CNN)** — Real-time mask detection using CNNs for safety monitoring.

## CERTIFICATIONS

- AICTE FDP on Quantum Computation
- IBM: Basics of Quantum Information
- IBM: Fundamentals of Quantum Algorithms
- IBM: Quantum Machine Learning
- Qiskit Advocate Program
- Kaggle: Intro to ML
- IBM: Introduction to AI

## ACHIEVEMENTS

- Selected for the **Qiskit Advocate Program 2025**.
- Published paper on AI-based Inventory Management (ICIET).
- M.Tech merit scholarship for academic excellence.
- Represented India in Men's Throwball (Indo-Sri Lanka Youth Cup 2024 — Runner-up).