

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
- **Data Engineering:** ETL/ELT, Data Modeling, Pipelines
- **Machine Learning:** Scikit-learn, Pandas, NumPy; Classification, Clustering
- **Big Data:** Spark, Hadoop, Kafka
- **Quantum ML:** Qiskit, Quantum Circuits, Hybrid Models
- **Tools:** Streamlit, Jupyter, Git, Docker, PostgreSQL

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.
- **Real-Time Sales Data Pipeline** — Built real-time ingestion and aggregation pipeline connecting Kafka, Spark, and PostgreSQL.
- **Multilingual Customer Support Chatbot (NLP)** — Multilingual chatbot using Transformers with Python backend.
- **Emotion Detection (NLP)** — Implemented BiLSTM with GloVe embeddings for multi-class recognition.

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).