

# BANDLAPALLI ROSHAN BABU

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## SUMMARY

M.Tech student in Artificial Intelligence & Data Science, expanding expertise in **Quantum Computing and Quantum Machine Learning**. Experienced with quantum-classical hybrid pipelines, quantum circuits, and quantum-inspired models, while leveraging strong foundations in AI/ML. Selected as a **Qiskit Advocate (2025)** and active contributor to applied QML research.

## 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

- **Quantum Computing:** Qiskit, Quantum Circuits, QASM Simulator
- **Quantum ML:** Hybrid Models, QCNN, QSVM, Variational Circuits
- **Programming:** Python, Java, SQL
- **AI/ML:** PyTorch, TensorFlow, Scikit-learn, Pandas, NumPy
- **NLP:** Transformers, BiLSTM, LangChain
- **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  
Built predictive models for pricing, quality prediction, and classification tasks.

## PROJECTS

- **Quantum-Classical Pipeline for Facial Biometrics** — Developed hybrid pipeline combining classical vision models with QML circuits for biometric recognition.
- **Oracle Circuit & QASM Simulation** — Implemented custom oracle circuit and tested algorithms on IBM QASM simulator.
- **QCNN & QSVM Experiments** — Built quantum convolutional and support vector models for classification benchmarks.
- **Multilingual Customer Support Chatbot (NLP)** — Transformer-based chatbot with Python backend.

## CERTIFICATIONS

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

## 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).