

# BANDLAPALLI ROSHAN BABU

Hyderabad, India — broshann14@gmail.com — +91 6301607295  
LinkedIn — GitHub

## SUMMARY

M.Tech student in Artificial Intelligence & Data Science specializing in **Deep Learning, NLP, and Quantum Machine Learning**. Skilled in hybrid quantum-classical pipelines, multilingual NLP systems, emotion recognition, and large-scale ML deployment. 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:** Tokenization, Sentiment, BiLSTM, GloVe
- Quantum ML:** Qiskit, Quantum Circuits, Hybrid Models
- Tools:** Streamlit, Jupyter, Git

## EXPERIENCE

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

## PROJECTS

- Multilingual Customer Support Chatbot (NLP)** — Built a multilingual chatbot using **Transformers** with a Python backend.
- Emotion Detection (NLP)** — Implemented BiLSTM with GloVe embeddings for multi-class emotion recognition.
- Building an ANN from Scratch (DL)** — Implemented backpropagation & optimization in Python without deep learning libraries.
- Face Mask Detection (CNN)** — Real-time face-mask detection using CNNs for image classification and safety monitoring.

## CERTIFICATIONS

- AICTE FDP on Quantum Computation (2025)
- IBM: Basics of Quantum Information (2025)
- IBM: Fundamentals of Quantum Algorithms (2025)
- Qiskit Advocate Program (2025)
- Kaggle: Intro to ML (2023)
- IBM: Introduction to AI (2021)
- Internshala: Python Programming (2022)

## 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).