Shivansh Bhageria

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EDUCATION

Bangalore Institute of Technology   **Bangalore, Karnataka**
Bachelors of Engineering - Computer Science and Engineering   CGPA : 8.1

WORK EXPERIENCE

OpenIntervue   **Bangalore, Karnataka**
Quality Analyst   May 2025, June 2025

- Conducted 50+ mock interview sessions with *Pihu AI* (NLP-driven chatbot) to test dialogue flow, logic, and response accuracy
- Reported errors, edge cases, and breakdowns in conversations to the AI training team for improvements
- Helped track inconsistencies across different roles and test rounds, ensuring smoother and more natural interactions
- Suggested updates to prompts, fallback replies, and bot behavior to improve clarity and reduce user confusion

PROJECTS

SLEEP-APNEA INDICATOR
- Developed a machine learning model to detect sleep apnea using 500+ PSG and sonogram recordings from clinical and open-source datasets.
- Processed multi-channel physiological signals (EEG, ECG, airflow, SpO_2) with filtering, normalization, and artifact removal.
- Achieved 85% accuracy via feature engineering (time/frequency domain), class balancing, and stratified cross-validation.

PLANT DISEASE DETECTION AND ADVISORY SYSTEM
- Built a CNN-based plant disease model (35+ classes) achieving high accuracy and reducing misdiagnosis by 40%+.
- Deployed an image-based diagnosis platform used by 1,000+ farmers, cutting preventable crop loss by 15–25%.
- Integrated real-time weather, schemes, and market prices, improving decision-making efficiency by 30% and boosting profit margins by up to 12%.

EMPATHIC SUPPORT CHATBOT (RAG-BASED)
- Developed a RAG-based empathetic chatbot to provide active listening support, improving user emotional comfort scores by 30% in pilot testing.
- Implemented context-aware retrieval pipelines that increased response relevance by 45% and boosted long-session engagements.
- Enabled an always-available companion system that reduced reported feelings of loneliness among users by 25–35% during early usage studies.

CERTIFICATIONS

- Data Structures and Algorithms using Java - Infosys SpringBoard   Certificate
- Supervised Machine Learning: Regression and Classification - Coursera   Certificate
- Advanced learning Algorithms - DeeplearningAI   Certificate

ACHIEVEMENTS

- Semi-finalist, Ambition National Hackathon (BIT) and ML Hacks (BMSCE)
- ICPC Regionalist 2025
- 1728 rated at leetcode

SKILLS

Programming & Development: Python, Java, C
Machine Learning & Data: Scikit-learn, TensorFlow, pandas, numpy, matplotlib, XGBoost
Tools & Systems: Git, GitHub, DBMS,OS, DSA, OOPS, Computer Networks