AYUSH RAI

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EDUCATION

Indian Institute of Information Technology Manipur | **Imphal, Manipur**

Bachelor of Technology in **Electronics and Communication Engineering** | Nov 2022 – May 2026

CPI: **7.75**

EXPERIENCE

Software Developer (Data & Backend) | Mar 2025 – Jul 2025

Securify

- Designed a data-isolated, **multi-tenant system** to ensure **secure data handling** and access control for **6+** client roles.
- Built automated **data processing pipelines** using **Celery**, **Flower**, and **Go**, improving the reliability of background **data management** and system tasks.
- **Analyzed and optimized database query performance** for **50+ REST APIs**, reducing query response times by **10%** and improving access to critical data.

Google Cloud Boost Skill Program Participant | 2024

Google Arcade

- Leveraged **GCP services** including Compute Engine, Cloud Storage, and Cloud Run to deploy and manage scalable, secure, and reliable applications, demonstrating proficiency in cloud technologies.

PROJECTS

TruthLens - Fake News Classifier ⬛ | Aug 2025

- Built a **data science pipeline** to classify over 5,000 news articles as real or fake, improving automated fact-checking efficiency.
- Implemented NLP and machine learning pipelines using **Python**, **scikit-learn**, and **Transformers**, including preprocessing, feature extraction, and model evaluation.
- Generated a robust classification system achieving **92% accuracy** and developed a prototype interface supporting real testing of news articles.

Parkinson's Disease Detector ⬛ | Apr 2025

- Addressed the challenge of detecting early-stage Parkinson's disease from noisy biomedical voice data using signal processing and data science techniques.
- Engineered a deep learning pipeline with **CNNs** on **spectrogram representations** of 2,000+ audio samples, incorporating preprocessing and augmentation for robustness.
- Achieved **90%+ accuracy**, demonstrating performance comparable to state-of-the-art research in medical voice analysis.

TalkBuds – Real-Time Chat Platform ⬛ | Oct 2024

- Tackled the challenge of building a real-time communication platform capable of handling multiple concurrent conversations with persistence.
- Developed a scalable system using **Django**, **PostgresQL**, and **WebSockets**, integrating secure authentication, role-based user management, and session handling.
- Successfully supported **150+ active chat rooms** under high load, deploying on cloud with monitoring and logging to ensure reliability and scalability.

TECHNICAL SKILLS

Data Science & ML:	**Python**, **SQL**, **Pandas**, **NumPy**, **scikit-learn**
Frameworks:	**PyTorch**, **TensorFlow**, **Django**, **Fast API**
Cloud & Platforms:	**GCP**, **AWS**, **Docker**, **GitHub**
Other Skills:	**Go**, **C++**, **JavaScript**, **React**, **Tableau**

ACHIEVEMENTS

- Solved **500+ coding problems** on Codeforces, Leetcode, and CodeChef, strengthening Data Structures and Algorithms.
- Reached **3-Star on CodeChef** with a peak rating of **1733**, securing a global rank of 105.
- Winner of **CodeRush 2024** – 1st place in Competitive Coding (Non-CS branches).
- Secured victories in **3 CTF tournaments** organized by the Data Security Club, competing against 1,000+ participants.
- Earned **30+ badges** in the Google Cloud Boost Skill Program via Google Arcade, showcasing cloud proficiency.