Anugya Chaubey

+91 9910693592 | anugyachaubey95@gmail.com | linkedin.com/in/anugya | github.com/anugyachaubeBy

Education

BTech in CSE (AIML)	| CGPA: 9.37	VIT University	May 2027
Higher Secondary Education	| Percentage: 91.6%	New Delhi	July 2022
Secondary Education	| Percentage: 93%	New Delhi	July 2020

Technical Skills

Languages: Python, SQL, Java, C++, YAML
Frameworks: HTML, CSS, Flask
Developer Tools: Visual Studio, PyCharm
Cloud & DevOps: AWS (Glue, S3, IAM, CloudWatch), Apache Spark, ETL Pipelines
Libraries: pandas, NumPy, Matplotlib, Apache Sparks, TimescaleDB, CSV data management

Experience

Cloud Intern at IOTfy [link] May 2025 – June 2025

- Created an automated ETL pipeline using AWS Glue and Apache Spark to transfer and partition 5GB+ of daily time-series data from TimescaleDB to S3, achieving 60% storage cost reduction via Parquet optimization and 70% faster query performance**.**
- Automated data exports and cloud operations with VPC-secured connections, IAM roles, and CloudWatch monitoring, saving 10+ manual hours/week and enabling real-time analytics on historical IoT data.

Backend Developer Intern at The Mentor [link] Aug 2024 – Jan 2025

- Contributed to building and maintaining the company's educational technology (EdTech) website using Python 3 and Django**,** ensuring efficient backend functionality and smooth integration with the frontend.
- Designed and managed MySQL relational database schemas with over 2,000 records, optimizing data storage and retrieval for better system performance.

Projects

Deepfake Analysis | *Python, TensorFlow, Keras* [link] Dec 2024 – Jan 2025

- Developed a deepfake detection model using Python, TensorFlow, and Keras. Built an 8-layer CNN for spatial features and a 2-layer LSTM with 256 units each for temporal analysis.
- Trained on 800 videos using Adam optimizer with a learning rate of 0.0001 and batch size of 32.
- Utilized OpenCV for video preprocessing, including frame extraction and metadata parsing. Trained and validated the model on FaceForensics++ and Deepfake Detection Challenge datasets, achieving 81% accuracy and an F1-score of 0.90.
- Designed a user-friendly interface for real-time video analysis and classification. Optimized model performance using GPU acceleration and data augmentation, achieving 5% higher accuracy than the baseline RNN model.

Real-time Face Recognition Attendance System | *Python, OpenCV, NumPy* [link] Aug 2024 – Oct 2024

- Engineered a real-time face recognition system capable of identifying individuals and recording their attendance, automating the process and reducing manual effort by 90%.
- Executed a robust face recognition pipeline using OpenCV's Haar cascade classifiers for face detection and KNN for identification, training on a dataset of 700 facial images with an average detection time of <100ms per frame.
- Created a data-driven attendance management solution that stores records in a structured CSV format, facilitating easy analysis and reporting. The system also provides optional text-to-speech feedback for immediate confirmation, reducing false negatives by 30%.
- Improved the system's accuracy and efficiency through data preprocessing and model optimization, enabling the model to make correct predictions 8 out of 10 times.

Maze-Solving Robot | *C++, Arduino* [link] Feb 2023 – Mar 2023

- Built an autonomous robot capable of navigating a maze by following black lines, demonstrating proficiency in robotics, embedded systems, and C++ programming.
- Integrated 4 infrared sensors for line detection and engineered control logic to guide movements, processing sensor data at 50 Hz for real-time navigation.
- Developed algorithms for handling intersections and dead ends, enabling the robot to make intelligent decisions and adapt to a 10x10 maze structure.
- Fine-tuned motor control parameters in C++ to optimize speed and stability, implementing 4 speed levels ranging from 10 cm/s to 40 cm/s for adaptive navigation.