

# Aryan Hemant Sahu

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 Aryan Sahu |  aryaniscoding | [LeetCode](#)

## EDUCATION

### Pune Institute of Computer Technology (PICT)

Bachelor of Engineering, Electronics & Telecommunications with AIML Honours

CGPA: 9.68/10

2023 – Present

## EXPERIENCE

### • Shoption Pvt. Ltd. [🌐]

September 2025 - Present

IT Intern

Hybrid

- Developing multilingual advanced RAG backend layer for customer facing chatbots
- Integrating APIs with frontend, CRM, marketing automation platforms, and internal tools.

### • Aeronica Advance Technologies Pvt. Ltd. [🌐]

June 2025 - August 2025

Control Systems Intern

Hybrid

- Worked on advanced automation algorithms, including PID, MPC, and LQR.
- Implemented these algorithms on an STM32 microcontroller interfaced with an MPU6050 sensor for real-time feedback control, optimizing drone performance.

### • NxTechWorks Consulting Pvt. Ltd. [🌐]

May 2025 - June 2025

Data Science Intern

Remote

- Engineered a RAG chatbot to automate document parsing and QnA tasks, improved the chatbot's by incorporating advanced features such as result crossencoder reranking, summarization, query suggestions and context awareness.
- Developed and deployed n8n workflows that deliver personalized nearby event suggestions via email and automatically sync updates to Google Calendar.

## PROJECTS

### • AquaMitra: Hybrid RAG + Text-to-SQL

August 2025 - Present

Python, FastAPI, Uvicorn, LlamaIndex, HuggingFace, DuckDB, SQLAlchemy + duckdb-engine

[🌐]

- Built a Hybrid RAG QA assistant with LlamaIndex routing, queries via Text-to-SQL on a single DuckDB table.
- CSV ingested into DuckDB, used case-insensitive text filters and persisted chat logs with executed SQL latency.
- Delivered a FastAPI + Uvicorn backend using SQLAlchemy (duckdb-engine), exposing /api/chat, /api/health, and /api/history and integrating the full RAG/Text-to-SQL pipeline.

### • FareFlow: Smart Parking System

Feb 2025 - May 2025

Python, Flask, ESP32-CAM, Plate Recognizer API, SQLite, OpenCV

[🌐]

- Built an end-to-end parking solution with ESP32-CAM video feed and Flask backend.
- Automated license plate recognition via Plate Recognizer API, achieving 98% accuracy at 0–3m
- Developed dynamic fare logic calculating fees based on parking duration, eliminating manual billing errors.

### • The Gladiators Fantasy Cricket Team Selector

May 2025 - July 2025

Python, pandas, scikit-learn, Docker

[🌐]

- Built an automated fantasy-cricket selection engine using scikit-learn Pipelines with ColumnTransformer and RandomForestRegressor tuned via RandomizedSearchCV.
- Containerized workflow with Docker and a reproducible data pipeline (Excel in, CSV out) leveraging pandas/numpy/openpyxl.

## SKILLS

- Programming Languages: Python , C / C++ , MySQL

- Web Technologies: Flask, Uvicorn, FastAPI

- Database Systems: Relational: MySQL / SQL , Vectordb : Faiss, LLamaindex,VectorDB

- Data Science & Machine Learning: Pandas ,Numpy, Matplotlib, Seaborn, Scikitlearn, Tensorflow, NLP, OCR, transfer learning

- Cloud Technologies: GCP, AWS EC2

- DevOps & Version Control: Docker, Model deployment, Git/Github

- Other Tools & Technologies: Github actions, Google colab, VS code, Kaggle, Huggingface, Control system algorithms(PID,MPC,LQR)

- Software development: OOP, DSA, DBMS, OS(beginner), CN(beginner)

## ACHIEVEMENTS

- Demonstrated advanced problem-solving ability by solving over 400 Data Structures and Algorithms problems on LeetCode and GfG

- Ranked in the top 45 out of 650+ teams nationwide in the Dream11 gameathon