Ayushman Saxena

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Education

Manipal University Jaipur **2020 - 2024**

- **B.Tech. (Bachelor of Technology), Information Technology** CGPA: **8.68**

Modern Academy, Lucknow **2018 - 2019**

- ***ISC (Class 12),*** *Aggregate:***90.25**

City Montessori School, Lucknow **2016 - 2017**

- ***ICSE (Class 10),*** *Aggregate:***89.6**

Skills

Languages: C++, Python , JavaScript, SQL
Databases: PostgreSQL, Oracle PL/SQL, SQL Optimization
Web Dev: FastAPI, REST APIs, Node.js, Express.js
Data Science: Pandas, Scikit-learn, Predictive Modeling
GIS Tools: Google Earth, PostGIS, GeoJSON
Tools: Git, Docker, Power BI
Soft Skills: Analytical Thinking, Problem-Solving, Logical Reasoning, Communication, Team Collaboration, Time Management

Professional Experience

Lepton Software| Backend Software Developer Trainee March 2024 - September 2024

- Developed a toll calculation API for Google Maps using FastAPI, improving route efficiency for 1M+ users daily.
- Optimized PostgreSQL queries on 1.3B records, reducing data retrieval time by 500%.
- Constructed ETL pipelines for GIS data using Python and PostgreSQL, including database query optimization and SQL performance tuning.
- Collaborated with cross-functional teams to deliver scalable location-based solutions.

Oerlikon Balzers| Data Science Intern June 2023 - August 2023

- Formulated a sales forecasting model using ARIMAX, improving accuracy to 88.4% over two years.
- Created an employee attrition prediction system with Scikit-learn, aiding HR decisions with 76% accuracy.
- Integrated OpenAI GPT API into Power BI, reducing analytical processing time by 80%.

Freelance/Projects

Optimal Data Center Location Analysis (Freelance)

- Conducted **data extraction and transformation** by scraping **large-scale geospatial datasets** in JSON and GeoJSON formats.
- Extracted insights from **optical fiber cable data**, analyzing landing points and routing paths using **Python, QGIS, and PostgreSQL**.
- Implemented an **interactive GIS-based visualization** on Google Earth, providing actionable intelligence for strategic data center placement across Europe.

Breast Cancer Prediction

- Designed an **ML-based classification system** to identify cancerous cells in breast tissue samples.
- Assessed multiple models (**Random Forest, KNN, Logistic Regression, Linear Regression**), achieving **95% accuracy**.
- Enhanced diagnostic reliability by optimizing **feature selection and data preprocessing**.

Multiuser Chat Application

- Engineered a **real-time chat system** using Express.js and WebSocket, facilitating seamless user interactions.
- Incorporated **dynamic user management, instant messaging, and message persistence**, enhancing user experience.

Certificates

- IBM – Machine Learning with Python
- Oracle PL Database Foundations
- Red Hat System Administrator
- Johns Hopkins – HTML, CSS, JS