Arya Wazalwar

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ABOUT

Analytical and result-oriented Electronics Telecommunication Engineering student with strong foundations in Python, Machine Learning, and Data Analytics. Experienced in real-world data projects, building end-to-end pipelines, and deploying analytical dashboards. Passionate about turning complex datasets into actionable insights through statistical modeling, visualization, and predictive analytics.

SKILLS

- **Programming & Tools:** Python, SQL, Embedded C, JavaScript (TypeScript), Git
- **AI/ML:** Pandas, NumPy, Scikit-learn, Supervised/Unsupervised Learning, Data Cleaning, Predictive Modeling
- **Data Engineering:** ETL pipelines, Data Cleaning, Query Optimization
- **Storage & Systems:** MySQL, File Systems (basic), Database Management System/
- **Visualization:** Matplotlib, Seaborn, Tableau, Power BI (basic), Excel
- **Cloud Platforms:** AWS (Certified), Google Firebase, Microsoft Azure.

EXPERIENCE

Software Developer Intern   *May 2025 – July 2025*
Voyant Systems Pvt Ltd, Pune

- Built a full-stack DBTM (Digital Body Training Model) web application using **React.js**, **Node.js**, and **MySQL**, deployed on **Render**.
- Integrated **ESP32-S3**, **VL53L1X**, and **SH1106 OLED** to capture real-time measurements, with live data sync via **WebSockets**.
- Developed backend architecture using **SQL Server**, **Firebase Realtime Database**, and **REST APIs** for seamless device-cloud interaction.
- Designed analytical dashboards and visual reports using **Python (Matplotlib, Plotly)** and **Tableau** for performance evaluation.
- Ensured end-to-end data pipeline flow with interactive visualizations and responsive UI, improving test insight and decision-making.

Skills: Application Development, Python, Embedded C, Firebase Realtime Database, SQL Server, Firebase Auth, Arduino, ESP32-S3, Matplotlib, Plotly, MySQL Workbench, VS Code, JavaScript

EDUCATION

- **Bachelor of Technology – Electronics & Telecommunication**   *CGPA: 7.91/10*
  Pimpri Chinchwad College of Engineering (2022 – 2026)
- **Higher Secondary Certificate**   *Percentage: 88.50%*
  Maharashtra Higher Secondary School Certificate Examination (2020-2022)
- **Secondary School Certificate**   *Percentage: 92.60%*
  Central Board of Secondary Education (2019-2020)

ACHIEVEMENTS

- First Prize – Annual Third-Year Project Exhibition
- Presented paper in MIT COE conference
- Participated in Hardware Hackathon conducted by ETSA at Annual Tech Fest.

PROJECTS

1. Soldier Health Monitoring System

- Built GIS map for air, water, and noise pollution visualization.
- Integrated Python + SQL backend and predictive module.
- Designed a predictive module using dummy datasets and visualized control measures per region.
- **Skills:** Python, SQL, Data Visualization, ETL, Leaflet.js, Web Dev, Object Detection
- **Link:** [Soldier Health Project](#)

2. ENVIROAI – AI Enabled Pollution Monitoring

- Developed an interactive map using Leaflet.js to display air, noise, and water pollution levels.
- Enabled region-specific pollution insights with control measures.
- Used Python and SQL for data processing and retrieval.
- **Skills:** Python, SQL, GIS Mapping, Leaflet.js, Web Dev, Object Detection
- **Link:** ENVIROAI Project

3. SHL AI Product Design Webapp

- Developed a conversational AI tool to assist users in navigating SHL's product catalog.
- Integrated AI-driven search functionalities to provide instant, relevant product recommendations.
- Designed a user-friendly interface, enhancing the overall user experience.
- **Link:** SHL Webapp

CERTIFICATES

- Microsoft Azure Fundamentals – Great Learning   *June 2025*
- Introduction to SQL   *March 2025*
- MATLAB Certified – MathWorks   *December 2024*
- Excel Sheet Formulas and Functions – Data Analyst 101   *August 2024*
- AWS Solutions Architect – Professional   *June 2023*

LEADERSHIP & INITIATIVES

- General Chair, Abhiyantrix'25 – B.Tech E&TC Annual Research Conference
- Active in IEEE and ETSA technical forums; mentored juniors and led events
- Committed to ethics, teamwork, and continuous improvement

EXTRA-CURRICULARS & ACHIEVEMENTS

- Represented Vidarbha Cricket Association – U14 & U16 Professional Cricket
- NDA TES-149 course – Conference Out from 12 SSB Bangalore