Tushar Shandilya

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Portfolio: tushaarrr.github.io/portfolio

AI-Driven Data Analyst & ML Engineer

AI-focused Data Analyst and ML Engineer with hands-on experience building real-world AI systems.
Co-founded an Alzheimer's diagnosis platform, fine-tuned OpenAI models, and deployed full-stack ML
solutions using Python, SQL, and modern AI tools.

EDUCATION

- **Douglas College**   New Westminster, Canada
  Post-Baccalaureate Degree in Computer Information Systems(Data Analytics)   *2023 -2025*
- **Jaipur Engineering College and Research Center University**   India
  Bachelor of Computer Application   *2019 - 2022*

EXPERIENCE

- **Cerebramha (AI-Powered Alzheimer's Diagnosis Platform) — cerebramha.com**   Vancouver, Canada
  Co-Founder — ML Engineer & AI Product Builder   *Dec 2024 – Present*
  - **Built Multimodal AI Model**: Designed a dual-input **CNN-MLP model** combining **3D MRI scans** and **49 health markers**, achieving **75% accuracy** in Alzheimer's stage prediction.
  - **Integrated LLM-based Medical Assistant**: Implemented a real-time AI assistant using **OpenAI APIs**, learned about **MedAlpaca**, and **RAG** to generate explainable insights from clinical data.
  - **Deployed Full-Stack Platform**: Led development using **FastAPI, Supabase, React, Vercel**, with **3D Grad-CAM + AAL3 atlas** visualizations for explainability.
- **MedTourEasy**   Remote
  Data Analyst Trainee   *08/2024 - 08/2024*
  - **Spearheaded Data Analysis**: Restored **40% incomplete records** using ML-driven imputation on 500+ fitness datasets, enhancing **data integrity**.
  - **Predictive Insights**: Implemented predictive models improving forecast accuracy by **25%**, driving data-backed decisions. Integrated analytics modules into data pipelines, streamlining insights delivery.
  - **Key Technologies**: Skills: Python (Pandas, Scikit-learn), Power BI, SQL, Statistical Analysis
- **FlitWebs**   Jaipur, India
  Data Analyst   *01/2022 - 04/2022*
  - **Cleaned and Analyzed Large Datasets**: Conducted data mining on 500,000+ data points to extract insights into age-specific health patterns.
  - **Data Transformation**: Addressed data gaps using advanced **Python libraries** and cloud tools, ensuring reliable results.
  - **Key Technologies**: Skills: Python (Pandas, NumPy), SQL, Power BI, Analytical Thinking
- **FlitWebs**   Jaipur, India
  Python Developer Intern   *05/2021 – 08/2021*
  - **Developed Web Modules in Django**: Created backend features and admin dashboards using **Python, Django**, improving client-side functionality.
  - **Worked with SQL & APIs**: Built and tested **REST APIs**, designed PostgreSQL schemas, and implemented CRUD operations for seamless data management.
  - **Frontend Deployment**: Styled interfaces using **HTML/CSS** and collaborated with the dev team to push features to production.

SELECTED PROJECTS

- **Brain Stroke Prediction — Python, SQL, Machine Learning - [Source File]**
  - **Developed** ML models achieving **90.26% accuracy** in stroke prediction.
  - **Synthesized insights** to identify health indicators like age, BMI, and glucose levels.
  - **Skills: Python, Power BI, SQL, Machine Learning**

- **Hospitality Revenue and Booking Analysis — Python, Power BI, DAX, MS Excel - [Source File]**
  - **Spearheaded** the analysis of **132,000+ bookings**, leading to **$1.69 billion** in total revenue.
  - **Designed** dynamic dashboards and KPIs, providing **actionable insights** for business and financial decision-making.
  - **Tracked 70.1% revenue realization**, identifying key platforms and business bookings generating over **$0.5 billion**.

SKILLS

Data Visualization: Tableau, Microsoft Power BI
Libraries and Frameworks: Pandas, Matplotlib, Seaborn, Numpy ,RAG, Scikit-learn, Grad-CAM, Transformers, Large language Models(LLMs)
AI/ML Tools: OpenAI, Chatgpt, Julius AI, V0.dev, ClaudeAI, Perplexity AI, Hugging face,
Data & BI: SQL, MongoDB, Power BI, Tableau, Excel, ETL, EDA, KPI Dashboards
Business Intelligence: BI Dashboard Creation, KPIs, Reports, Data Transformation, Data Analysis, Data Mining, Data Cleaning, Data Manipulation
Programming Languages: Python, C#
Soft Skills: Communication, Analytical Thinking, Problem Solving, Teamwork, Time Management, Critical Thinking