Abhijeet Kumar

Data Engineer | Al Solutions Developer | Full Stack Developer | Github | Portfolio

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Professional Summary

Results-driven Computer Science postgraduate (MSc, University of York) with hands-on expertise in data engineering, AI/ML, and high-performance computing. Proven success in automating business processes, forecasting demand using time-series models, and deploying generative AI solutions on the cloud. Passionate about building scalable, production-ready systems that convert complex data into actionable insights and measurable outcomes.

Experience

- System Administrator (MIS & Data Engineering)
 Kalawati Enterprises (P&G Partners) | 2024 Present
- Automated daily sales and inventory reports using Python (Pandas, NumPy), reducing manual workload by 60%.
- Conducted trend analysis on multi-regional sales data, contributing to 30% growth in targeted product performance.
- Designed and implemented ARIMA and LSTM models for accurate demand forecasting.
- Built custom MIS dashboards for stakeholders, enhancing visibility and decision-making using internal KPIs.

Project Highlights

- ➤ Route Optimization & Allocation Tool Professional Project (Github)

 Python, Pandas, Scikit-learn, Geospatial Algorithms, Tkinter, TTKBootstrap
- Automated assignment of uncovered locations based on distance threshold and business rules (e.g., prefix enforcement, distributor limits).
- Significantly reduced manual effort and errors in route mapping by over 90%, improving field coverage efficiency.
- Portfolio site Personal Project (Github)
- Developed a fully responsive personal portfolio using React + Tailwind, showcasing AI,
 Data Engineering, and Python projects.
- Integrated **Framer Motion** for smooth animations and used **Vite** for fast build and development workflow.

- Tech: React, node.js, React, Tailwind CSS, Vite, Framer Motion, GitHub, Vercel
- Autonomous Robot Navigation Simulator Academic Project (UOY)
- Developed a ROS-based simulation using Gazebo + TurtleBot, implementing dynamic obstacle avoidance.
- Tech: ROS, Python, Gazebo, C++, Linux
- **→** High-Performance Parallelization for Scientific Code Academic Project (UOY)
- Optimized legacy code using CUDA & MPI, achieving 30x speed-up over serial baseline.
- Benchmarked performance using OpenMP vs CUDA frameworks.
- Tech: CUDA, MPI, OpenMP, C/C++
- ➤ AI-Driven Snake Game Automation Personal Project (Github)
- Trained a neural network agent using genetic algorithms, achieving scores >100 after 500 generations.
- Tech: Python, Neural Networks, Genetic Algorithms

Education

University of York, UK

MSc in Advanced Computer Science | Sept 2022 - Feb 2024

Modules: High-Performance Computing, Evolutionary Computation, User-Centered Design, Model-Driven Engineering

Savitribai Phule Pune University, India

Bachelor of Engineering in Computer Engineering | Aug 2015 - Feb 2020

Courses: Software Development, OOP, Operating Systems, Engineering Mathematics

Technical Skills

- Languages & Frameworks: Python, C++, SQL, JavaScript, HTML/CSS, Flask, Django, React, Vite, Tailwind CSS
- Data & AI: Pandas, NumPy, Scikit-learn, TensorFlow, ARIMA, LSTM, Neural Networks, Genetic Algorithms
- > Tools & Platforms: Git, Jupyter, Docker, AWS EC2, FastAPI, VS Code, Eclipse, ROS
- Cloud & DevOps: CI/CD Pipelines, Cloud Storage, Docker Containers, Prompt Engineering