

# Abhijeet Kumar

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Data Engineer | AI 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, Hugging Face Transformers, Scikit-learn, Pytorch
- **Data & AI:** Pandas, NumPy, Scikit-learn, TensorFlow, ARIMA, LSTM, Neural Networks, Genetic Algorithms, LLM, NLP, CNN, RAG, AgenticAI, LangChain, OpenCV, ML, LLaMa
- **Tools & Platforms:** Git, Jupyter, Docker, AWS EC2, FastAPI, VS Code, Eclipse, ROS
- **Cloud & DevOps:** CI/CD Pipelines, Cloud Storage, Docker Containers, Prompt Engineering