

Naman Pandey

Data Scientist

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SUMMARY

Results-driven Data Scientist with 8 years of professional experience, including project management and extensive work in machine learning, statistical analysis, and data-driven research. Holds an MSc in AI (distinction) and is proficient in developing end-to-end ML pipelines and conducting impactful projects in healthcare and finance. Strong skills in Python, TensorFlow, and SQL. Led the development of advanced deep-learning models for medical image analysis. Fully eligible to work in the UK and India, and committed to delivering innovative data science solutions.

EXPERIENCE

Data Scientist - Research and Development division

Apr '24 — Present

Blatchford Mobility

United Kingdom

- Developed a pipeline of ML models for Gait Phase Identification and detecting abnormal gait from sensor data.
- Currently working in a team conducting the research study in Norway, as part of the project to analyse patient gait.
- Implemented end-to-end pipelines for data collection, processing and modelling, while maintaining data governance and security protocols to ensure compliance with healthcare data regulations.
- Building recommendation systems to provide personalized treatment plans and recommendations for patients.

Machine Learning Engineer

Apr '24 — Aug '24

Mercor

United States (Remote)

- As a contractor on the Competitor Profiling Project for Etched, a startup developing the world's first transformer ASIC, I profiled GPUs from Nvidia and AMD, running open-source models like LLaMA 3/3.1 (8B, 70B, 405B) on TensorRT-LLM and vLLM.
- Developed comprehensive benchmarking scripts in C++ and Python, focusing on performance validation.
- Created consumer-friendly documentation for reproducing the performance tests.

Research Assistant

Jul '23 — Aug '23

Brunel University

United Kingdom

- Generated a conversational chatbot app for academic queries in python, using langchain and OpenAI's GPT-3 APIs.
- Analysed the impact of using LLMs like ChatGPT and Gemini in academic settings, particularly on student assessments.
- Co-authored a data-driven report on their impacts and applications, scripted in LaTeX, with automated visualisations generated through Python.

Field Service Engineer

May '17 — Aug '22

Pressco Technology Inc.

United States

- Supervised and led the installation, configuration, and integration of machine vision solutions for 50+ projects.
- Provided hands-on technical training to clients on the operation and maintenance of installed systems.
- Executed system audits and followed up on previously installed equipment to identify and resolve issues.

Software Developer

Jul '16 — May '17

Tata Consultancy Services Ltd.

India

- Adapted to dual roles as both software developer and tester as needed, ensuring project continuity and timely delivery.
- Engineered REST API endpoints in JAVA for USAA Bank and Insurance clients, modernising legacy applications and enhancing system performance significantly.
- Implemented automation scripts in Python for insurance form comparisons, leading to a noteworthy reduction of over 50% in project costs and human efforts.

EDUCATION

Master of Science (M.Sc.) in Artificial Intelligence, Brunel University

Sep '22 — Sep '23

London, United Kingdom

- Graduated with **distinction**, ranking first among a combined cohort of 350 students including AI and Data Science.
- Scored A+ grades in all modules** including AI, ML, Digital Ethics and Governance, and the Dissertation project.

Bachelor of Technology (B.Tech.) in Computer Science, Birla Institute of Applied Sciences

Jul '12 — Jun '16

Bhimtal, India

- Graduated with **merit**.
- Secured top positions 10+ times in regional and intra-college technical events.

SKILLS

Machine Learning TensorFlow, PyTorch, OpenCV, Scikit-Learn, Regression, Classification, Computer Vision

Data Analysis Pandas, NumPy, Data Collection, Cleaning, Feature Engineering, Hypothesis Testing, Statistical Analysis

Generative AI and LLMs RAG, vLLM, TensorRT-LLM, Llama 3, OpenAI APIs, GPT-3.5, Stable Diffusion, WhisperX

Natural Language Processing (NLP) Hugging Face, Spacy, NLTK, Transformers, Word Embeddings

Database Management MySQL, PostgreSQL, SQLite, MongoDB, NoSQL
Programming Skills Python, R, SQL, JavaScript, C++, Java, Node.JS
Business Intelligence Tableau, Excel, Pivot Tables, Data Visualization
Knowledge of Sentiment Analysis, Expert Systems, Recommendation Engine, Topic Modeling, Time Series Analysis
DevOps Azure DevOps, Google Cloud Platform (GCP), Git, CI/CD, Docker, Selenium, A/B Testing, Unix, Linux
Soft Skills Research and Development, Project Management Skills, Team Leadership, Time Management, Adaptability

PROJECTS

- Enhancing Brain Tumour Segmentation in 3D MRI Images - Computer Vision Project [Link](#) Feb '23 — Sep '23
- Developed advanced deep learning architectures to improve 3D brain tumour identification in MRI images, by integrating Attention Mechanisms, Recurrence, Multi-objective Loss, Deep Supervision, and Swin Transformers in the original UNet Architecture. These models, created from scratch in Pytorch and trained in parallel over 8 Nvidia A6000 GPUs, surpassed standard benchmarks in terms of segmentation performance, by over 4% in terms of dice scores and sensitivity.
- Dialogue Insights Generator: An Innovative NLP Solution [Link](#) Jan '24 — Mar '24
- Developed an innovative web application using Flask and Python, leveraging state-of-the-art NLP techniques, Generative AI models (GPT-3.5-turbo), proprietary diarization pipelines (Deepgram, WhisperX) from Huggingface, and cloud deployment (using Docker and GCP) to provide comprehensive insights from conversational data. The solution transcribes audio dialogues, analyses the conversation text, and generates personalised sentiment and psychological profiles for each speaker. Additionally, it assesses speaker attitudes and recommends strategies for future interactions.
- Missing Money Matters - Data Analysis Capstone Project [Link](#) Jun '23 — Aug '23
- Engaged in the "Missing Money Matters" project from the LinkedIn SQL Training Capstone Project as a data analyst for WSDA Music, delving into financial discrepancies using SQL (SQLite) and NoSQL (MongoDB) databases. Analyzing data from 2001 to 2012, the project tackled relational and unstructured data from Customers, Employees, and Invoices Tables/Collections, offering insights into financial irregularities.
- Fortune 1000 CEO Diversity and Performance Dashboard [Link](#) Jan '23 — Apr '23
- Collected and analyzed Fortune 1000 data for 2019-2021 to investigate the impact of CEO gender on company financial performance. Developed a Tableau dashboard for comprehensive analysis, exploring CEO gender distribution across sectors and its correlation with financial metrics. This project while uncovering insights into gender diversity and financial trends among top-ranking companies, identified sectors where female leadership performed better than their male counterparts.

More Data Science, Analytics and Artificial Intelligence Projects [Link](#)

CERTIFICATIONS

Six Sigma: Green Belt Project Management Certification

LinkedIn Learning

Google Cloud Computing Foundations

Google Cloud Skills Boost

Data Analytics Essentials

Cisco

Career Essentials in Generative AI

Microsoft

VOLUNTEERING

- Secretary**, The Programming Club, BIAS
Vice-Secretary, The Printing and Publication Club, BIAS
Student Ambassador, Brunel University