

KARAN PANWAR

📍 Cambridge, UK

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🌐 Portfolio

🔗 GitHub

👤 Professional Summary

A highly motivated and detail-oriented **Data Scientist** with practical experience in designing, developing, and deploying **scalable AI-driven solutions** across diverse domains. Possesses strong proficiency in **full-stack web development**, predictive data modeling, and crafting user-focused applications through human-centered design principles. Currently advancing academic and technical expertise through a **Master of Science in Computer Science** at Anglia Ruskin University, with a focus on machine learning, data analytics, and intelligent systems.

🎓 EDUCATION

MSc Computer Science

Sep 2024 - Present

Anglia Ruskin University
Cybersecurity, Research Methods

Cambridge, UK Modules: ML in Finance, Advanced Web Solutions, Semantic Data Technologies,

BSc Computer Applications

May 2021 – May 2024

St. Xavier's College
Statistical Analysis

Ahmedabad, India Core: Advanced Programming, Data Structures, Database Systems, Web Technologies,

⚙️ TECHNICAL EXPERTISE

Programming: Python, SQL, Java, JavaScript, PHP

ML & AI: TensorFlow, Keras, Scikit-learn, OpenCV, LSTM, CNN

Data Science: Pandas, NumPy, Power BI, Matplotlib, Statistical Modeling

Web Development: React.js, Django, Flask, HTML5/CSS3, REST APIs

Tools: Jupyter, Git, MySQL, WebSockets, Real-time Systems

🔧 PROJECTS

Cambridge Culture Website (2025)

Full-stack Development + University Assignment

★ Developed comprehensive website showcasing Cambridge culture, collaborating effectively within a team of 4

★ Utilized modern web technologies to create an engaging and informative platform, delivering project requirements on time

Emotion-Based Music Recommender (2025)

Computer Vision + Deep Learning + Spotify API

→ CNN-based facial emotion detection achieving **85% accuracy**

→ Integrated Spotify API for dynamic playlist generation, handling concurrent users

Stock Market Prediction Engine (2024)

LSTM + Time Series + Financial Modeling

◇ Interactive Power BI dashboards for real-time market visualization and risk assessment

◇ Advanced feature engineering with technical indicators and sentiment analysis

Project Management Platform (2024)

React + Django + MySQL + Real-time

▷ Full-stack application increasing team productivity

▷ Role-based authentication, real-time notifications, optimized queries reducing load times

Eye-Tracking Cursor Control (2024)

Computer Vision + Accessibility + HCI

✓ Gaze-based cursor control with advanced eye tracking achieving **95% accuracy**

✓ Custom calibration protocols for users with limited mobility

👛 Professional Experience

Research Assistant - Advanced ML

Jan 2025 - Present

Anglia Ruskin University

Cambridge, UK

★ Leading research on Quantum Neural Networks vs CNNs

★ Collaborating on financial ML applications and semantic data processing algorithms

⚙️ CERTIFICATIONS & INNOVATIONS

Certifications: Python for Data Science (IBM) • Data Analytics & Visualization (Accenture) • Software Engineering Simulation (JPMorgan) • Advanced ML (Coursera) • Cybersecurity Workshop

Additional Projects: Sign Language Translator (AI + Accessibility) ◇ Real-time Chat (WebSocket + Node.js) ◇ Spam Detector (NLP + ML) ◇ Weather API (Django) ◇ AI Cartoonizer (OpenCV)