

SANSKRUTI JAJOO

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39 Winifred Avenue, Coventry, CV5 6JT, England

AREAS OF EXPERTISE

Machine Learning, Data Science, Data Analysis, Natural Language Processing, Cloud technologies, Agile Framework, Big Data

EDUCATION

Master of Science (M.Sc.) in Computer Science (Artificial Intelligence)

Sep 2021 - Sep 2022

UNIVERSITY OF NOTTINGHAM

Nottingham, England

Award: *Computer Science Excellence Award*

Bachelors of Technology (B.Tech) in Production Engineering (Sandwich) (with Minors in Computer Engineering)

Jul 2015 – Jun 2019

COLLEGE OF ENGINEERING, PUNE

Pune, India

PROFESSIONAL EXPERIENCE

AAD Senior Data Analysis Engineer

Nov 2022 – Present

JAGUAR LAND ROVER

Coventry, England

- Conduct vehicle testing data analysis for ADAS (Advance Driver Assistance System) vehicle features.
- Spearheaded the development of a YOLOv5-based video analysis system to detect alert signals with 77% accuracy, ensuring timely and accurate recognition of vehicle dashboard notifications, and improving testing efficiency by 80%.
- Automated a data pipeline to generate Tableau dashboards from JIRA and TRM requirements, reducing manual effort by 80% and accelerating report generation time by 70%, improving data integration and visualization efficiency.
- Deployed a GCP cloud-based dashboard to track vehicle test executions, enabling real-time monitoring and reducing data processing time by 40%, enhancing test efficiency.
- Initiate and lead a weekly internal knowledge-sharing session focused on data science and software engineering topics, fostering team learning and cross-functional collaboration through technical presentations and discussions.

Intern Data Scientist

May 2022 – Sep 2022

UNIVERSITY OF NOTTINGHAM - DIGITAL RESEARCH SERVICE

Nottingham, England

- Generated data driven action plans based on COVID-19 app data with 200+ patients.
- Applied predictive modeling to forecast COVID-19 case surges from 30+ locations, aiding in resource allocation and preparedness.

Software Engineer

Jul 2019 – Jun 2021

ZEBRA TECHNOLOGY PVT. LTD.

Pune, India

- Engineered REST API-driven solutions for Workforce Scheduling platform, optimizing labor schedules and budgets for over 20 clients using Java, SQL, and AngularJS.
- Provided technical support and troubleshooting for clients, achieving a 25% decrease in reported issues and enhancing overall user experience.

Data Analyst Intern

July 2017 – Dec 2017, Dec 2018 – May 2019

TATA MOTORS

Pune, India

- Standardized purchase processes, managed 70+ proposals, and reduced vendor selection time by developing an application based on TOPSIS.
- Improved assembly line efficiency by 28%, providing actionable insights with a comprehensive PowerBI dashboard that visualizes line parameters.

PROJECTS

NoteGenie - Smart assistant that generates notes and quizzes to boost learning

June 2025

- Developed an AI-powered learning assistant for students using RAG (Retrieval-Augmented Generation) to generate context-aware notes, quizzes, and personalized feedback from academic PDFs—enhancing study efficiency and retention.
- Built an interactive app with persistent session state, enabling students to seamlessly navigate between tasks without data loss—improving usability and engagement in self-paced learning environments.

Unified Medical Service - A Prescription Generator integrated with Medicine Inventory

Apr 2025

- Built a web-based prescription generator to streamline clinical workflows, enabling doctors to instantly create patient prescriptions with customizable dosage, test recommendations, and health inputs.
- Integrated medicine inventory tracking system, that enabled doctors to adjust prescriptions transparently, maintaining patient trust, while automating out-of-stock item reordering to streamline inventory management.

Browser Mate - Web Monitoring & Alert System

Apr 2022

- Built a real-time web monitoring extension that reduces access to age-inappropriate sites, using Twilio API for instant SMS alerts.
- Integrated OpenAI based content summarization, improving parental control through AI-generated summaries of visited URLs.

Big data – Credit card fraud detections

Mar 2022

- Examined a large-scale imbalanced dataset of 2M+ transactions, detecting fraudulent activity in just 0.172% of cases.
- Applied SMOTE+ENN pre-processing to handle imbalance, resulting an improvement in fraud detection using Apache Spark on Databricks.

SKILLS

Python: NumPy, Scikit-Learn, Matplotlib, Plotly, SciPy, Pandas, NLTK, TensorFlow, Keras, PyTorch, Seaborn, XGBoost, StatsModels, Pytest, PySpark, BERT, BeautifulSoup, Langchain, HuggingFace, streamlit

Programming: Python, R, Hadoop, Apache-Spark, SQL, Java, Spring, Angular JS, HTML, Jupyter, Linux

Apps & Tools: VSCode, R-studio, Eclipse, Tableau, Power BI, Git, JIRA, Confluence, Data bricks, Docker, AWS, GCP, Label Studio

CERTIFICATIONS

Building Gen AI App 12+ Hands-on Projects with Gemini Pro (By Krish Naik on Udemy)

Mar 2025

Certified Tester Artificial Intelligence Testing (CT-AI) by International Software Testing Qualification Board (ISTQB)

Mar 2025

Certified Tester Foundation Level (CTFL) by International Software Testing Qualification Board (ISTQB)

Dec 2024