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EDUCATION

MSc. Data Science

Sept. 2024 – Sept. 2025

Bristol, UK

University of Bristol

Sept. 2020 - May. 2024

B.Tech in Computer Science and Engineering(1st Class Distinction)

Birla Institute of Technology, Mesra

Ranchi, India

SKILLS SUMMARY

• Languages: Python, R, C/C++, JavaScript, SQL, HTML, CSS, GraphQL

- Tools & Methodologies: AWS, MySQL, MongoDB, ZenML, MLflow, Scapy, Pandas, NumPy, scikit-learn, TensorFlow/Keras, Jupyter, NLP, Matplotlib, Seaborn, Plotly, Tableau, Git & GitHub, MS Office, Scrum, Kanban
- Soft Skills: Strong Communication, Teamwork & Collaboration, Problem-Solving, Adaptability, Time Management, Leadership, Attention to Detail, Critical Thinking, Creativity

EXPERIENCE

Sainsbury's – Online Assistant

Nov 2024 - Present (Bristol, UK)

- Delivered 200+ weekly online orders with high accuracy, ensuring customer satisfaction through precise substitutions and timely fulfillment.
- o Collaborated with teammates to manage peak-hour demand, optimize workflows, and maintain strong customer service standards.
- Astrojen Health Care Private Ltd. Software Engineer (Internship) Jan 2024 - Apr 2024 (Remote, India)
 - Developed critical Admin Panel components with React.js, Node.js, and MongoDB, boosting team efficiency by 40%.
 - Automated 50+ actions by integrating MongoDB triggers with AWS Lambda, enabling seamless data transfer to SQL databases.
 - o Built a React.js eQuotation system with PDF automation, cutting document generation time from 20 minutes to 2 minutes and improving client satisfaction by 30%.

Business Web Solutions (BWS) – Full-stack Developer Intern

May 2023 - Jul 2023 (Remote, India)

- o Developed an e-commerce fashion app using the MERN stack, scalable to handle 500+ product listings and 1,000+ daily active users.
- Implemented and optimized APIs for inventory, payments, and order processing, reducing update delays and ensuring real-time synchronization.
- o Designed 15+ reusable, responsive UI components and optimized database queries, improving load times and boosting user engagement by 25%.

Projects

End-to-End ML Pipeline for House Price Prediction

Jan 2025 - May 2025

- Replaced manual ML workflows with an automated pipeline, streamlining EDA and 30+ preprocessing steps to cut data preparation time by $\sim 60\%$ and minimize feature engineering errors.
- Engineered reproducible workflows with ZenML and MLflow, tracking 100+ experiments and boosting regression performance by $\sim 33\%$ while reducing error variance by $\sim 70\%$.
- Automated CI/CD-style retraining and redeployment, reducing deployment cycle time by ~ 75% and enabling both batch and real-time inference via REST APIs.
- An End-to-End Pipeline for Anomaly Detection in Thread Networks (Research Dissertation)
 - o Developed a structured pipeline for Thread IoT anomaly detection, automating packet parsing, annotation, and feature extraction to cut manual analysis by $\sim 60\%$.
 - Engineered 33 statistical and protocol-aware features and applied unsupervised ML models (autoencoder, One-Class SVM), reaching $\sim 90\%$ detection for energy depletion and jamming attacks.
 - Introduced one of the first pipeline-based approaches for Thread networks, contributing a methodology that supports future IoT security research.

Volunteer and Leadership Experience

• Secretary, IEEE Student Branch

Aug 2022 - Dec 2023

Coordinated 15+ events, impacting 10,000+ students, and secured \$208 in funding for best-performing branch.

• Graphics Lead, Google Developer Student Clubs BITD

Designed and delivered comprehensive workshops on programming fundamentals and creative visual design, effectively enhancing technical proficiency and engagement for over 200 students, demonstrating strong teaching and mentoring abilities.

• Led sessions for DRISTI NGO, aiming on education and women's empowerment in underprivileged July 2021 - Aug 2023 communities.