

ADIN FIROZ

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PROFESSIONAL SUMMARY

- MSc Artificial Intelligence student at Brunel University London with strong foundation in machine learning, data analytics, and statistical modeling.
- Proficient in Python, R, and SQL; experienced with data visualization tools including Tableau, Matplotlib, and Seaborn.
- Developed real-world ML and NLP projects involving clustering, similarity detection, and predictive analytics; achieved Silhouette Score of 0.882 in DBSCAN-based accident risk analysis.
- Certified in Data Science (Infosys Springboard) and NLP (Intel AI); keen interest in building scalable, AI-driven solutions.

EDUCATION

Brunel University London

Sep 2025 – Nov 2026

MSc Artificial Intelligence

Amity University Noida

2022 – 2025

BCA, CGPA: 9.21/10

TECHNICAL SKILLS

- **Programming:** Python, SQL, R
- **Machine Learning:** Data Cleaning and Preprocessing, Classification, Regression, Cluster Analysis, NLP, Feature Engineering, Model Evaluation
- **Libraries:** Pandas, NumPy, Scikit-learn, Matplotlib, Seaborn
- **Data Visualisation:** Tableau
- **Databases:** MySQL, MongoDB
- **Tools:** Git, GitHub, Jupyter Notebook, Android Studio
- **Web Technologies:** React, Node.js, Express.js, HTML, CSS, JavaScript

EXPERIENCE

Research Assistant

May 2026 – Present

Brunel University

- Contributing to the development of an AI-powered calling and booking system as part of a university research initiative, integrating conversational AI with real-time scheduling workflows.
- Building and maintaining full-stack application using the MERN stack (MongoDB, Express.js, React, Node.js), designing RESTful APIs and responsive front-end interfaces.
- Collaborating with academic supervisors to prototype and evaluate AI-driven dialogue flows, improving appointment booking accuracy and reducing manual intervention.

Web Development Intern

May 2024 – July 2024

MAIN Flow Technologies

- Completed a 2-month internship developing and maintaining web application features using HTML, CSS, and JavaScript, contributing to live projects under professional supervision.
- Gained hands-on experience with responsive design principles and cross-browser compatibility, delivering UI components aligned with client requirements and deadlines.

Volunteer Teacher

Feb 2024 – Mar 2024

TPR India Foundation (NPO)

- Volunteered as a teacher for underprivileged students at a non-profit organisation, delivering foundational lessons in English, Mathematics, and General Science across a 2-month programme.
- Designed engaging, age-appropriate activities, including poems, games, and interactive exercises to improve literacy and numeracy in a resource-limited environment.

PROJECTS

Water Quality Monitoring Dashboard | *Tableau, R, Geospatial Analytics* 2026

- Built an interactive Tableau dashboard on a 2,892-record China water pollution dataset spanning 10 provinces, enabling Environmental Health Officers to identify high-risk regions, dominant pollutants, and seasonal trends through dynamic filtering and geospatial mapping.
- Identified Hubei, Guangdong, and Sichuan as the highest-risk provinces with Ammonia and Nitrite as dominant pollutants; pinpointed March as the peak pollution period, directly supporting evidence-based inspection planning.
- Implemented user-centred design principles including pre-attentive colour encoding, dynamic titles, regression trend lines, and multi-dimensional risk mapping — encoding both chemical risk and pH deviation independently at station level.

Accident Risk Zone Prediction (DBSCAN Clustering) | *Python, ML* 2025

- Engineered a DBSCAN clustering pipeline on real-world road incident data to pinpoint high-risk zones, achieving a Silhouette Score of 0.882 — the kind of insight that enables city planners and traffic authorities to prioritise safety interventions and reduce accident rates.
- Applied robust outlier handling and noise filtering, skills directly transferable to fraud detection, sensor data processing, and anomaly detection pipelines in industry.
- Findings directly applicable to insurance risk modeling, smart city infrastructure, and public safety dashboards used by local governments and logistics companies.

GFG Student Chapter Website | *HTML, CSS, JavaScript, Bootstrap* 2024

- Designed and developed the official website for the GeeksforGeeks Student Chapter at Amity University, providing a central hub for events, resources, and member information.
- Built with a mobile-first, responsive layout using Bootstrap, ensuring seamless access across devices and aligning with modern web standards for student-facing platforms.

NLP Question Retrieval System | *Python, NLP* 2021

- Built a semantic search engine using TF-IDF vectorization and cosine similarity that surfaces contextually relevant content from large text corpora — the same principle powering enterprise knowledge bases, AI customer support, and legal document retrieval systems.
- Implemented a full NLP preprocessing pipeline (tokenization, stopword removal, normalization), reflecting production practices used in chatbot development, HR screening tools, and EdTech platforms.

EXTRA-CURRICULAR

Management Team Member 2024

APC Club, Amity University

- Assisted in planning and coordinating club events, workshops, and technical sessions, supporting member engagement and smooth operational logistics.
- Contributed to team communications and administrative processes, developing organisational and leadership skills in a collaborative student-led environment.

CERTIFICATIONS

- Data Science Certification – Infosys Springboard (2024)
- NLP Certification – Intel AI / Women’s Bootcamp (2021)

ADDITIONAL INFORMATION

- **Languages:** English (C1 IELTS), Hindi
- **Availability:** 20 hrs/week (part-time), 40 hrs/week(full-time)