NIKITA BABBAR

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EDUCATION

University School of Automation and Robotics, GGSIPU EDC   New Delhi, India

Bachelor of Technology in Artificial Intelligence and Data Science (CGPA:8.68)   2022-2026

Relevant Coursework: Database Management System, Software Engineering, Data Structures and Algorithms, Artificial Intelligence

Kamal Model Sr Sec School   New Delhi, India

Class 10th (93.6%) and 12th (94.8%)

PROJECTS

1.OIL SPILL DETECTION SYSTEM

- Developing a system using AIS data and satellite SAR imagery to detect oil spills in marine environments, applying DBSCAN algorithm for anomaly detection in AIS data and using CNN architectures to identify oil spills on satellite SAR images, generating real-time alerts for port authorities.

2.KRISHI-TECH: A One Stop Destination for Farmers

- **Developed** an **AI-driven platform** for farmers with features including crop and fertilizer prediction, disease diagnosis using real-time location data, integrated marketplace functionalities and an intuitive dashboard for farmers. Utilized regression models, SVM, Random Forest algorithm, CNN, generative AI, and prompt engineering.

SKILLS

Technical Skills: Machine learning, Deep Learning, Data Analytics, Natural Language Processing
Libraries: NumPy, Pandas, Matplotlib, Seaborn, Plotly, Scikit-learn, TensorFlow, Keras, Streamlit, NLTK
Programming Languages: Python, C++
Database: MySQL
Soft Skills: Time Management, Leadership, Teamwork, Adaptability, Problem-Solving

EXPERIENCE

MACHINE LEARNING INTERN, GGSIPU

- Worked under my university professor and Developed an **IoT-Fog based healthcare system** integrating machine learning and fog computing for detecting and predicting chronic diseases in real time such as diabetes, stroke and heart disease.

IBM SKILLSBUILD INTERNSHIP IN DATA ANALYTICS

- Gained practical experience in real-world applications of data analytics and machine learning. Developed an electricity price prediction model using energy generation data, integrated with a **hybrid neural network** architecture that incorporates **LSTM** layers for time series forecasting and Dense layers for external feature integration.

OPEN-SOURCE CONTRIBUTION

- **Contributions** included conducting **detailed data analysis** and **data visualizations** using **matplotlib, seaborn and plotly**, significantly improving the clarity and usability of **complex datasets** and designed and implemented intuitive, **user-friendly dashboards** using **Streamlit**, streamlining data accessibility and enhancing interpretation.

AWARDS AND ACHIEVEMENTS

- **3rd** place in **BuildwithDelhi Hackathon** (1500+ teams).
- **Top 1000** teams out of 30,000+ in **Myntra's WeForShe** Hackathon.
- **2nd place** in **Codex Space Hackathon** (university-level, 500+ participants).
- **Lead** Coordinator in **Smart India Hackathon 2024**.

POSITION OF RESPONSIBILITY

- **General Secretary, IEEE-WIE, GGSIPU**
  Led chapter activities, coordinated events, and managed communication to advance IEEE initiatives.
- **General Secretary, 1M1B IPU CHAPTER GGSIPU**
  Advocated for sustainability and promoted the use of AI and emerging technologies among youth. Managed the student body of the club.