Aditya Malik

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EDUCATION

- **Vivekananda Institute of Professional Studies - Technical Campus** New Delhi , India
  B.Tech in Artificial Intelligence and Machine Learning CGPA: 8.48 November 2021 - June 2025
  Courses: Operating Systems, Data Structures and Algorithms, Artificial Intelligence, Machine Learning, Deep Learning, Computer Networks, Databases, Natural Language Processing, Data Mining

- **Kamal Model Sr Sec School** New Delhi , India
  Higher Secondary Certificate April 2021

SKILLS SUMMARY

- **Languages:** Python
- **Machine Learning:** Scikit-Learn, TensorFlow
- **Data Analysis:** Numpy, Pandas
- **Data Visualization:** Seaborn, Matplotlib
- **Deep Learning:** Keras, NLTK

EXPERIENCE

- **Summer Training - MERN Stack** July 2023 - August 2023
  Gained hands-on experience in building dynamic web applications using MongoDB, Express.js, React, and Node.js.

- **IBM SkillsBuild Data Analytics - Summer Internship Program** June 2024 - August 2024
  Worked on data collection, analysis, and visualization projects using industry-standard tools.
  - Analyzed large datasets to derive actionable insights.
  - Learned data visualization and reporting techniques.

PROJECTS

- **Notes-Making App using React:** Built a React application to create, edit, and manage notes with seamless state management. Implemented a user-friendly interface with real-time synchronization to ensure smooth note-taking experiences across devices.
  Tech Stack: React, JavaScript, Redux, HTML, CSS, Firebase **GitHub Link**

- **Credit Card Fraud Detection:** Designed a machine learning model achieving 96.3% accuracy using Logistic Regression and Random Forest. Improved model performance through feature engineering and hyperparameter tuning to minimize false positives.
  Tech Stack: Python, Scikit-Learn, Pandas, NumPy, Matplotlib **GitHub Link**

- **Predicting Crop Yield in India:** Leveraged machine learning and climatic models to forecast agricultural production based on weather patterns and soil health. Incorporated real-time weather data for more accurate yield predictions, aimed at improving agricultural planning and resource management.
  Tech Stack: Python, Scikit-Learn, TensorFlow, Pandas, NumPy **Drive Link**

- **Gesture Control System:** Developed a gesture-controlled presentation system, allowing users to control slides using hand gestures. Integrated machine learning and depth-sensing technologies for accurate gesture recognition. The system enhances accessibility and interactivity during presentations by enabling hands-free control, offering a new level of convenience and user engagement.
  Tech Stack: Python, OpenCV, TensorFlow, Flask, JavaScript, HTML, CSS **GitHub Link**

PUBLICATIONS

- **Unmasking Illusions: A Comprehensive Study of Image Forgery Techniques and Countermeasures in the Era of Deep Fakes.** Presented at the "Recent Advances in Sustainable Engineering and Future Technologies 2023".
  Link to paper

CERTIFICATIONS

- Industrial Visit on Network Bulls
- MERN Stack - Brain Mentor Pvt. Ltd.
- Data Analytics - IBM SkillsBuild
- Cyber Security (Web Hacking) Course Certificate - IFACET IITK