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Abhishek Kumar

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Education

National Institute Of Technology - Delhi *Aug 2023 – Dec 2027*
Artificial Intelligence and Data Science

- CGPA: 7.13/10.0
- Coursework: Artificial Intelligence, Machine Learning, Data Science, Data Mining, Probability and Statistics, Optimization, Data Structures and Algorithms, Operating Systems, Python, C/C++ etc.

Govt Boys Sr Sec School Seemapuri, Delhi (12th)

- Percentage 78
- **Coursework:** PCMB

Technical Skills

C, C++, Python, JavaScript	Languages
HTML5, CSS3, JavaScript, Bootstrap, React.js, Node.js, Express.js, MongoDB, MySQL, REST APIs	Web Development
NumPy, Pandas, Scikit-learn, TensorFlow, Keras, Matplotlib, Seaborn, NLTK	Machine Learning & Data Science
Jupyter Notebook, Google Colab, Hadoop	Tools & Platforms
Data Structures, Algorithms, Object-Oriented Programming (OOP)	CS Fundamentals

- Strong understanding of DSA and core CS principles
- Proficient in Python, C/C++, and JavaScript
- Hands-on experience with ML/DL model development and deployment
- Skilled in full-stack development using MERN/MEAN stacks

Projects

AgriNova – Agriculture + Innovation *github* | *live demo*

- Developed a multi-functional web application using **Streamlit** to assist in agricultural decision-making through deep learning, machine learning, and real-time data.
- Integrated a **CNN-based image classifier** (TensorFlow/Keras) for plant disease detection via leaf images.
- Designed a crop recommendation system using classification logic based on soil nutrients, weather conditions, and pH values.
- Implemented fertilizer suggestions using rule-based logic and dynamic **weather-based advisory** via the OpenWeatherMap API.
- **Tech Stack**: Python, TensorFlow-Keras, Streamlit, Pandas, OpenWeatherMap API

IPL Match Predictor – Real-Time Win Probability Estimator *github* | *live demo*

- Built a ML pipeline to predict IPL outcomes using ball-by-ball data.
- Developed an interactive **Streamlit** app for real-time win probability updates.
- Used **Logistic Regression** and **Random Forest** for predictions.
- **Stack**: Python, Pandas, Scikit-learn, Streamlit, Matplotlib

Wonderstay – Seamless Travel Booking & Property Sharing Platform *github* | *live demo*

- Developed a full-stack web application enabling users to create, view, and interact with hotel and villa listings in real time.
- Implemented secure **user authentication and session management** using Express sessions and cookies.
- Enabled dynamic **CRUD operations** for posts (listings), including title, price, and location, with integrated comment functionality.

- Integrated an interactive **map-based UI** to display property locations using external APIs or client-side geolocation.
- Deployed the application using **Render** with a fully managed **MongoDB** backend for persistent data storage.
- **Tech Stack**: Node.js, Express, MongoDB, EJS, Bootstrap, Render