Yash Singhal

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Education

KIET Group of Institutions June 2026
Bachelor of Technology, Computer Science and Engineering *Current GPA: 8.37/10.0*

Dewan Public School, Meerut June 2022
Schooling *Percentage: 96.2*

Coursework

Courses: Data Structures & Algorithms, Machine Learning, Operating Systems, Database Management System, Linear Algebra, Calculus, Probability & Statistics, Computer Architecture, Sensors, AI, Cyber Security, and Front-End.
Awards: Recognized for exceptional achievements, I completed extensive machine learning training and certification and Salesforce Certified Associate certification .

Experience

Bharat Intern | *Artificial Intelligence Intern* July 2023 – August 2023

- Crafted an innovative Python-based translator application, leveraging cutting-edge machine learning algorithms to seamlessly interpret text across a spectrum of languages.
- Pioneered an intuitive auto-correct tool using Python, engineered to swiftly identify and propose corrections for spelling inaccuracies within textual inputs.
- Architected an intuitive and responsive user interface, integrating AI-driven personalization, resulting in a 20% decrease in bounce rate and a 15% increase in average session duration.

Projects

Self-Driving Car Simulation | *Python, OpenCV, Webots, scikit-learn, Scikit-Image* August 2024 - September 2024

- Engineered a sophisticated self-driving algorithm using neural networks and OpenCV, achieving 92% accuracy in obstacle detection; the algorithm is currently being tested in real-world trials for autonomous vehicle deployment.
- Refined the model with scikit-learn for 97% road sign recognition accuracy and optimized path planning, reducing route time by 25% with collision-free navigation.
- Built and tested the simulation in a virtual city using Webots, evaluating self-driving capabilities under 50+ traffic scenarios and achieving a 95% success rate in handling complex conditions.

Chat Bot | *Python,Jupyter, Git, TensorFlow* April 2024 - May 2024

- Led the development of an intelligent chatbot using TensorFlow, PyTorch, NLTK, and spaCy, achieving 87% accuracy in intent recognition and 25% improvement in response relevance.
- Designed a real-time feedback loop that boosted conversational fluency by 30%, enhancing user interaction quality and reducing average handling time.
- Implemented a reinforcement learning-based fallback mechanism, decreasing conversation drop-offs by 15% and improving user retention.

Disease Prediction | *Jupyter, Git, VS Code, PyCharm, scikit-learn, Streamlit* June 2023 - July 2023

- Created a detailed disease prediction model using scikit-learn, employing pandas and NumPy for data processing;the final product enabled the analysis of over 8,000 records, providing critical insights for healthcare providers.
- Developed a Streamlit interface with interactive visualizations, handling 500+ data entries and achieving 95% usersatisfaction.
- Integrated a disease prediction model, achieving 91% accuracy and 93% precision in visual analytics, and delivering actionable insights and detailed reports via Streamlit.

Skills

Programming Languages:C, Python, Java, JavaScript, SQL, HTML/CSS, React
Concepts: Data Structures and Algorithms, Object-Oriented Programming (OOPs), Machine learning, Cloud, OpenCV, PyTorch Vision, TensorFlow, Scikit-Learn, Django
Tools: Git/GitHub, Linux/Unix, Jupyter, VS Code, PyCharm