Hritik Gupta

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Skills Summary

Languages: Java, Python, SQL, JavaScript
Frameworks: Flask, NodeJs,
Tools: GIT, MongoDB, MySQL, SQLite, ReactJs, Aws EC2, ExpressJs
Platforms: Linux, Windows, Web, Arduino, Raspberry
Soft Skills: Leadership, Directorate, Writing, Time Management

Education

Noida Institute of Engineering and Technology — Greater Noida, Up, India
Bachelor in Computer Science and Engineering with Artificial Intelligence; GPA: 8.54 — Nov 2020 - May 2024
Courses: Operating Systems, Data Structures, Analysis Of Algorithms, Machine Learning, Networking, Databases, Web Development

Experience

iNeuron — Bengaluru, India
Software Developer Engineer Intern — Mar 2023 - Apr 2023

- Created a regression model for **Metro Interstate Traffic Volume** forecasting with a low **RMSE of 0.37**.
- Experience in performing data analysis using Python, NumPy, Pandas, Scikit-Learn, and Jupyter.
- Performed data cleaning, preprocessing, exploratory, and deep dive analysis to fetch meaningful insights.
- Tested and Validated **CatBoostRegressor**, **AdaBoostRegressor**, and **XGBRegressor** to determine the optimal model. **CatBoostRegressor** 17% more accurate than others.
- Skilled in creating documents LLD, HLD, using Azure DevOps.

Noida Institute of Engineering and Technology — Greater Noida, India
Machine Learning Engineer Intern — Sep 2022 - Nov 2022

- Developed a Calling Bot solution that effectively updated parents on their child's attendance with a 99% success rate, significantly reducing workload by 80%.
- Facilitated over 1500+ calls, in significant time savings and improved efficiency.
- Developed the software using Python and leveraged Twilio API to enable backend calling functionality. Utilized AWS EC2 for deployment and SQLite for data storage.

IDR Research and Development Pvt. Ltd — Greater Noida, India
Machine Learning Engineer Intern — Nov 2021 - May 2022

- Implemented and integrated Drone (UAVs) with COMPUTER VISION applications involving vehicle plate recognition, image segmentation, Real-time object tracking and person detection.
- Led team to achieve 20% increase in FPS for object detection and reducing action time to 0.05ms through image segmentation for decision making.
- Utilized Python, MobileNet, Darknet, YOLOv5, YOLO7, OpenCV, TensorFlow, Torch, and Raspberry Pi for image processing and computer vision tasks.

Projects

- Chat application (**link:** https://m-talk.onrender.com/): Developed a robust chat application using ReactJS, NodeJS, ExpressJS, MongoDB, SocketIO, and Chakra UI. Implemented real-time messaging with user authentication and secured data storage. Leveraged Render server for seamless deployment and scalability.
- Digit Image Generator - GAN (**link:** https://hritikguptagan.pythonanywhere.com/): Developed GANs using Python, OpenCV, TensorFlow, and Keras to generate digit images for data augmentation, leading to a 20% improvement in model accuracy after 100,000 epochs on a 60,000-image MNIST digit dataset.
- Movie Recommendation System (**link:** https://hritik211.pythonanywhere.com/movie_recommend/): Created a content-based movie recommendation system with a 92% accuracy rate using Python, NLP, Flask, and Pythonanywhere, resulting in a 60% increase in user retention.
- Gender Predictor API (**link:** https://tinyurl.com/2ufznfaj): Designed to predict the gender based on name.

Honors And Awards

- Impressively solved over 700 DSA problems on LeetCode, GFG, and HackerRank.
- Ranked among the top 50 in problem-solving on Geek for Geeks out of 3100 participants.
- Winner of Sharda University's 2022 Tech Pitch championship.

Certifications

CodeStudio's technical interview Guide for product-based companies: offers valuable insights and resources for building AI-powered applications.