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.