Hirva Bhagat

1204 University Terr, Blacksburg, Virginia 24060

📞 540-449-7222 ✉ bhagathirva@gmail.com in https://www.linkedin.com/in/hirva-bhagat/
⯎ https://github.com/Hirva-Bhagat

Education

Virginia Tech	**Aug. 2021 – May 2023**
Masters of Science in Computer Science - GPA: 3.92	*Blacksburg, VA*

LDRP Institute of Technology and Research	**Aug. 2017 – May 2021**
Bachelors of Science in Computer Science - GPA: 4.0	*Gandhinagar, GJ*

Relevant Coursework

- Advanced ML
- Data Analytics
- Information Visualisation
- Information Retrieval
- Multi-source ML
- Big Data Analytics
- Neural Network
- Deep Learning
- Image Processing
- Natural Language Processing
- Artificial Intelligence
- Machine Learning
- Soft Computing

Experience

Virginia Tech Transportation Institute	**October 2021 – Present**
Graduate Research Assistant	*Blacksburg, VA*

- Performed research related to Gaze Fixation and analyzed its impact on driver safety.
- Developed an algorithm in python to perform calibration free point of gaze estimation for dual camera datasets.
- Automating pipelines of deep learning models to perform computer vision tasks in a user friendly setup.
- Worked on setting up dockers for multiple deep learning environments.

Goldman Sachs	**June 2022 – August 2022**
Summer Analyst (Core Engineering Division)	*Dallas, TX*

- Worked with Production Runtime Experience team to design and implement a tool that discovers functional milestones that can be potentially delayed due to upstream batch job failures.
- Consolidated different data sources to create a master dataset of batch jobs and their functional milestones, thereby enabling process failure impact analysis.
- Developed models based on historical data to obtain completion time estimates for any impacted deliverable.
- Interacted with the end users to determine their requirements and integrate their feedback into the product.
- Developed a Python UI that generates an interactive tabular representation of the results and hosted it as a Voila dashboard.

Projects

KSV Purchase and Maintenance | *Android, Firebase, MySQL, Tensorflow, Google Cloud* **January 2020**

- Launched an Android application developed to bridge gap in hierarchy between superiors and assigned personnel in the university.
- Bridged the user and server side by writing event logic.
- Created database schema for the application and developed functions to access the data.
- App being used by 25 KSV affiliated colleges to help over 50,000+ employees.

Automated System for Car Parking and Monitoring | *Computer Vision Models, Python, Node JS* **November 2019**

- Implemented a web application to monitor parking spaces and validate vehicles entering the premise automatically.
- Developed API calls in the back-end of the app to perform machine learning tasks and return results.
- Awarded the Most Innovative Idea at Smart India Hackathon finale, beating 2000+ teams.

Faculty Review Portal | *Java, Eclipse, JavaFX, MySQL* **August 2019**

- Designed a desktop application to take anonymous quarterly reviews of the faculty in our college.
- Used JavaFX to make the software dynamic and customize-able to various departments, addition of new Member or question changes.
- Deployed the app to the server to take over 8400+ department reviews and generate excel sheets automatically

Technical Skills

Languages: Python, C, C++, JAVA, HTML/CSS, JavaScript, MySQL, MongoDB, Oracle
Developer Tools: Anaconda, Eclipse, Google Cloud Platform, Android Studio, AWS, MLflow, Docker, Django, Node JS
Technologies/Frameworks: Linux, Github, Keras, TensorFlow, scikit-learn and PyTorch, Flask