SHREYAS KULKARNI

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EDUCATION

Rutgers University   **Sep 2021 - May 2023**
Master of Science in Computer Science | **GPA: 3.75/4.0**   New Brunswick, NJ
- TA for Intro to Stat course: conducted 10+ recitations and graded statistics assignments for 120+ students.
- Coursework: Machine Learning, Data Structures and Algorithms, Massive Data Mining, Computational Robotics

University of Pune   **Jun 2016 - May 2020**
Bachelor of Engineering in Computer Engineering | **CGPA: 8.99/10**   Pune, India
- Coursework: Software Engineering & Project Management, Database Management System, Advanced Data Structures

EXPERIENCE

ADP   **Jun 2022 – Aug 2022**
Application Developer Intern - SRE DevOps Team   Parsipanny, NJ
- Designed and implemented a system that centralizes the workflow for ADP employees with functionalities like Onboard a new microservice, automating create or delete repository, microservice links
- Revamped the system to make ADP standard website by constructing front-end using ReactJS, Typescript and establishing backend with Redux, Python to reduce 500 lines of code
- Deployed the system using Docker and increased user engagement by 70% making the web app the go-to destination for ADP developers to check the live deployment status

AriaAI IntelliGen   **Sep 2020 – Apr 2021**
SDE Intern   Pune, India
- Created a system that is a chatbot providing service conceptualized as a stand-alone web app or integrated into any existing website
- Coordinated a team of 4 to design an admin panel with real-time analytics to know customer engagement
- Demonstrated the visualization of demographic details of the users and performed the predictive analysis part, which resulted in interest from 5 investors

Pratibha Systems   **Aug 2018 – Dec 2018**
Software Developer Intern - IoT   Pune, India
- Completed a project for DRDO(Defense Research Development Organization) related to national security
- Teamed with 5 people to develop a fully functioning Raspberry PI(module O) provided with GUI and integration to the system
- Upgraded the technique to launch machine(weapon) which outperformed the previous technique by 50%

PROJECTS

Abstract Visual Reasoning Task - Code
- Developed and improved MRNET-based Network which is a novel approach to solve Abstract Visual Reasoning tasks such as RAVEN's progressive matrices(RPM)
- Trained neural network on more than 10000 RPM problems from the I-RAVEN dataset and compared the results against baseline models like LSTM, CNN, Resnet

Traffic Sign Detection - Code
- Developed Traffic Sign Detection system using Spiking Neural Network that gives 11% better accuracy over traditional neural networks
- Teamed with 3 people to train neural network on more than 5000 images from German Traffic Sign Dataset

Threat Prediction Using Speech Analysis - Paper
- Spearheaded the team of 3 to construct a system which focuses on predicting the threats by analysis of audio and respective textual data
- Incorporated in an audio surveillance system for crime investigation resulted in minimizing time and human errors

Movie Recommendation System - Code
- Led a team of 2 to build a movie recommendation system by integrating the aspects of user's personalization with movie's personalization along with the overall features of movie such as genre, popularity
- Analyzed different models such as Collaborative Filtering, Latent Based SVD, Combined Linear Model

SKILLS

- **Programming Languages:** Python, Typescript, Javascript, SQL, C++, HTML, CSS
- **Developer Tools**: AWS, Docker, Git, PySpark, Databricks, VS Code, Jupyter Notebook
- **Frameworks**: ReactJS, Redux, Django, Tensorflow, PyTorch, Keras, NLTK, scikit, matplotlib, pandas, CUDA