Shreya Terupally

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EDUCATION

IIIT Hyderabad
B.Tech (Hons) in Computer Science and Engineering
Grad. June 2021*, 9.37/10

COURSEWORK

Computer Vision, Operating Systems, Database Systems*, Distributed Systems, Artificial Intelligence & ML Machine Learning in NLP, Data Analytics*, Software Analysis and Design

AWARDS

• **Deans List of Excellence, 2017-20**
Awarded annually to top 1% students.
• **Smart India Hackathon, 2020**
Secured 2nd place among 70 teams and qualified for nationals.
• **JEE-Mains** All India Rank 453.
• **TS-EAMCET** All India Rank 149.
• **NTSE Scholarship** Selected by Govt.of India among 1.2 million people who appeared.

SKILLS

Languages: C, C++, Python, Java, Matlab, Go(Basic), JavaScript
Frameworks: Django, Flask, AngularJS, ReactJS
Databases: MySQL, Oracle, Neo4J, MongoDB, SQLLite3
Miscellaneous: PyTorch, Keras, Git Tensorflow, OpenCV, OpenGL

LEADERSHIP

• **Teaching Assistant, 2019 - present**
Courses : Data Structures, Discrete Mathematics, Principles of Information Security
• **Campus Life Coordinator, 2019-20**
Organised various cultural and extra-curricular events for students.
• **Marketing Manager, Felicity 2019**
Responsible for promotion and outreach by collaborating with brands for IIIT-H Fest Felicity.

EXPERIENCE

Uber   May 2020 - Jul 2020
Software Development Intern   Hyderabad, India
• Enhanced an internal library to return insights on **fraud detection failures.**
• Built a service endpoint and integrated with risk systems to help **create a dynamic dataset** and achieve **increase in precision rate.**
• Collaborated across teams to **improve developer efficiency** and experience, by building UI for the library enhancements

Microsoft IDC   May 2019 - Jul 2019
Software Development Intern   Hyderabad, India
• Built the first POC for the **android version of Edge** browser, as a team of 4.
• Developed the **core feature : Tab Center**, ensuring a consistent tab switching experience across all platforms.
• Implemented the **page translation** feature using Bing API, that supports detection and translation of **over 100 source-target languages.**

Automaxis   Aug 2018 - Nov 2018
FullStack Developer Intern   Hyderabad, India
• Designed and built an **invoice discounting platform** to assist businesses in obtaining credit for their bills of exchange.
• Leveraged Hyperledger Fabric, an existing **blockchain technology** to build a secure and **decentralized web application** with React JS and MongoDB.

RESEARCH

Robotics Research Center, IIIT-H   July 2019 - Present
Undergraduate AI Researcher
• Working on **vision-based robot control**, using optical flow as main features.
• Developed a **deep learning model** to achieve **6-dof pose for visual servoing** and currently extending the model to an unsupervised framework.
• **Publication :** DFVS :Deep Flow Guided Scene Agnostic Image Based Visual Servoing, International Conference on Robotics and Automation (ICRA 2019).

PROJECTS ⌽

StoryGraphs : Video Summarization as Timeline CV
• Automatic generation of **character interaction charts for TV episodes**
• 3-subsystem approach consisting of Scene Detection, Face Recognition and Chart Generation. Built in Python + PyTorch

Automatic Question Generation NLP
• Summarizes Telugu passages and generates Q/A pairs for reading comprehension.
• Employed a mixture of **rule-based, statistical and deep-learning techniques**, for extensibility to similar low-resource languages.

Group Chat Application Distributed Systems
• Created a client-server model using sockets in JAVA, which supports **file exchanging and chat-groups** among multiple clients.

Saf.ai : Smart Waste Management Smart India Hackathon, 2020
• Python Web Application to monitor waste-related issues of a locality.
• **Features:** Upload waste-related images, **DL-based priority identification**, Automatic **alerts to local authorities**, Dashboards to monitor issue status.