Rohan Rajpal

rohanrajpal.github.io| linkedin/rohanrajpal
github.com/rohanrajpal | +91 9871739342 | rohan17089@iiitd.ac.in

EXPERIENCE

VIDEOLAN | Google Summer of Code Student | Project link

June 2019 - August 2019 | Delhi, India

- Redesigned the VLC Media Player for Linux/Windows platform using Qt/C++ and QML.
- Focused on designing and developing more fluid and intuitive interactions and wrote production level code.

REALVOL | Software Engineering Intern

May 2018 - June 2018 | Delhi, India

- Developed a Unity mobile VR app to view MRI scans. Built the VR interactions and helped in the data processing.
- Coded all the hands-free interactions and helped in the data processing.

PROJECTS

UNDERSTANDING CLOUDS FROM SATELLITE IMAGES | Project Presenation Link

August 2019 – November 2019 | Delhi, India

Advisor: Dr. Jainendra Shukla, Assistant Professor, CSE, HCD @IIITDelhi

- Built a deep learning model to classify patterns of clouds in satellite images using the Google Compute Platform(GCP)
- Used augmentations in pre-processing and convex hull in post-processing to create a more accurate model.

ICLR WORKSHOP: COMPUTER VISION FOR CROP DISEASE | Competition Link

Jan 2020 – March 2020 | Delhi, India

Advisor: Dr. Saket Anand, Assistant Professor, CS @IIITDelhi

- Led the project on detecting wheat and stem rust on pictures of crops. Used Deep Learning to solve the problem.
- Did extensive research and ablation on various architectures, optimizers, learning rate schedulers and augmentations.

DELHI METRO CONNECT | Youtube Video Link

August 2019 – November 2019 | Delhi, India

Advisor: Dr. Ponnurangam Kumaraguru, Professor, CS @IIITDelhi

- Led the development of **Delhi Metro Connect**, an android app to provide help to metro users in Delhi
- Developed a beautiful Android app using Java. Helped in the design process from the low fidelity to the final application. Hostel the SQL data on Azure as backend.

RESEARCH

SOCIAL MEDIA DATA ANALYSIS August 2019 – Present | Delhi, India

Advisors: Dr. Ponnurangam Kumaraguru, Professor, CS @IIITDelhi
Dr. Kiran Garimella, Postdoc at Massachusetts Institute of Technology

- Using NLP techniques like LDA to do topic modelling using Python
- Storing data in MongoDB and writing efficient queries using Python
- Visualizing data in various forms using Plotly in Python

Researcher at Precog Lab @ IIITD Website link

• Precog is a group of researchers who study, analyze, and build different aspects of social systems

EDUCATION

INDRAPRASTHA INSTITUTE OF INFORMATION TECHNOLOGY DELHI

Btech in Computer Science Engineering
July 2017 - May 2021 (Expected)
Delhi, India
Cum. GPA: 8.78 / 10.0

SKILLS

PROGRAMMING

Over 5000 lines:
C++ • Python • Java
• QML and Qt-C++
Over 1000 lines:
C • Matlab
Familiar:
Android • MySQL • LaTeX • Shell
• JavaScript

COURSEWORK

Deep Learning(Ongoing)
Wearable Applications, Research, Devices, Interactions(Ongoing)
Internet of Things (IoT) (Ongoing)
Machine Learning
Computer Networks
Designing Human Centered Systems
Analysis and Design of Algorithms
Database Management System
Discrete Maths
Operating Systems
Data Structures and Algorithms
Probability and Statistics
Linear Algebra

LEADERSHIP

Campus Lead, Developer Student Clubs(DSC) by Google Developers
• Held a workshop on open source programs like Google Summer of Code and Outreachy
• Held a workshop in DevFest 2019 by Google Developers with 50+ participants
• Attended the India DSC Summit 2019 by Google as a DSC Lead
Student Mentor at IIITD
• Mentoring 7 freshmen and helping them with their academic, social and personal issues