Pranav Gupta

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Education

2015-Present IIT Mandi - B.Tech in Computer Science and Engineering, Himachal Pradesh.

Current CGPA: 8.87

2013–2015 Anand Swaroop Arya Saraswati Vidya Mandir, Roorkee, Uttarakhand.

Intermediate: 95.20 % | High School: 10 CGPA

Courses

Core Data Structure and Algorithms, Computer Organization, Paradigms of Programming.

OS and Communicating and Distributed Processes, Large Application Practicum, System Practicum.

Networking

Database Database Practicum, Information and Database Systems.

AI Fundamentals of Artificial Intelligence, Pattern Recognition(ML), Deep Learning.

Work Experience and Projects

June-August Samsung Research Intern (SRI-D), Voice Classification.

2018 Developed a light weight model capable of running on low end hardware which could predict gender,

emotion, based on an audio note. Python/C++/keras/tensorflow

April - May Naive File Encryption in Linux, Kernel Source.

2018 Tweaked read and write system calls in kernel source to implement on-the-fly file encryption(substitution cipher). Worked at VFS layer of kernel and used extended file attributes for

tagging a file with encryption as well as for password protection. Kernel/C

April - May DoS Attack Prevention in PostgreSQL, Database Management.

2018 Dived into large code base of PostgreSQL (written in C) and logged incoming queries into a separate file and then checked for relative similarity from last n queries at parser stage of query processing in

order to take further decision on query. C/SQL

Dec 2016 – Object Detecting Autonomous Quadcopter, ML, Object Tracking and Detection.

June 2017 Used Raspberry Pi as a video streaming server. Generated data stream was sent to a remote PC on which object detection and tracking task was completed. GPS was installed for tracking purposes

and Gimbal was also attached to provide stability to the camera. C++/Python/Ardupilot

Dec 2016 - **HP Police Assistant**, Android Application, Himachal Pradesh, Mandi.

June 2017 To collect and organize data of various vehicles passing through police checkposts and automate the

task of taking Challan for those who break traffic rules. Google Location API integrated to track the

location and Google Firebase (BaaS) for backend data management and storage. Optimizing performance by using third party libraries like Picasso for image caching. Java/Android/Firebase/BaaS

Programming Skills

Intermediate C, C++.

Basic Java, Python, MySQL.

Google Play Developer: ReactiveApps

Image Utility application to reduce the size of images (Rating: 3.5, Downloads > 5000).

Compressor

ODK Contributed to Open Data Kit (open source application for data collection).