JASJOT SINGH

ACADEMIC DETAILS

Year	Degree / Board	Institute	GPA / Marks(%)
---	M.Tech in Computer Technology	Indian Institute of Technology Delhi	8.06
2022	B.Tech Electrical Engineering	Punjab Engineering College	8.62
2018	PSEB	Triple M Public School	86.44
2016	CBSE	Dips School Tanda	10

QUALIFYING EXAMS

• **Graduate Aptitude Test in Engineering (GATE) Rank:** CS Rank 343: 99.5 percentile

TECHNICAL SKILLS

• **Programming Lanugages:** C, C++, Python
• **Frontend:** Android Development (Android Studio: JAVA)
• **CS Courses:** Data Structures and Algorithms,Operating Systems (OS),Computer Organization and Architecture(COA)
• **Other:** OOPS, SQL, Python, Machine Learning, Deep Learning and NLP (Natural Language Processing)
• **Tools:** Git, Github,Postman, Firebase, Jupyter Notebook
• **Profiles:** Github(https://github.com/Jasjot784), LinkedIn(https://www.linkedin.com/in/jasjot784/),Leetcode(https://leetcode.com/Jasjot784/),GeeksforGeeks(https://auth.geeksforgeeks.org/user/jasjotsingh/practice)

SCHOLASTIC ACHIEVEMENTS

• **Medium Profile(4+ Blogs)** :https://medium.com/@jasjot784
  - How to modify an Android Library in 7 steps
  - Introduction to OS deadlock
• **Leetcode Profile:** Link
• **Google Playstore Profile (3+ apps)** :https://play.google.com/store/apps/developer?id=Jasjot+Singh
  - My Mobile Sensors : This application Lists all the sensors which are present in ones android device.
• **3rd Prize Software hackathon PECFEST 2019**
  - The name of app is saferide. This is for the safety of school children
  - The github repo link is : https://github.com/Jasjot784/Saferide-YourRight
• **Github Profile:** Link

IIT DELHI THESIS

Title: Generation of Visual Field Chart from eye movement data
Supervisor: Prof. Tapan K. Gandhi
Description: Given the time series data of eye and ball,first we detect whether the patient has glaucomma or not. Then using the same data,we produce a 10x10 matrix representing the Visual Field Chart

PROJECTS

• **XV6 Operating System Modifications (Prof. SR Sarangi)**   (Jan 2023 to April 2023)
  - Adding System Calls: System calls for unicast communication, multicast communication
  - Scheduling Policies: Round Robin(Default), EDF(Earliest Deadline First), RMS(Rate Monotonic Scheduling)
  - ASLR Implementation: Address Space Layout Randomization is implemented to prevent attacks like buffer overflow.

• **Machine Learning Algorithms (Prof. Sumeet Agarwal)**   (August 2022 to November 2022)
  - Polynomial Regression and Linear Regression Implementation on a given supervised dataset
  - Classification Techniques implementation like SVM on a handwritten digits dataset.
  - Implementing Neural Networks on MNIST Dataset and comparing its performance with point 2 mentioned above.

• **What do you Meme (Prof. Tanmoy Chakraborty)**: Group Project   (May 2023)
  - We used text based BERT model from HuggingFace module for classifying hero,villain in a meme.
• **Work Regarding NLP (Prof. Tanmoy Chakraborty)**   (Jan 2023 to April 2023)
  - Calculating Performance of N-Gram Language Models on Harry Potter Dataset
  - NER BERT Model using Hugging Face Library

• **Detecting MicroSleep Events(Prof. Tapan K. Gandhi and Prof. Saurabh Gandhi)**   (November 2022)
  - Given ECG,EEG,EOG, Heartbeat Signals, the microsleep events are predicted in drivers.
  - Various techniques used were Support Vector Classifier, Support Vector Regressor, Random Forest Regressor

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IIT COURSE

Degree	Institute	CGPA
M.Tech in Computer Technology	Indian Institute of Technology Delhi	8.06

COURSES DONE

Mathematical Foundations Of Co, Software Fundamentals For Comp, Computer Architecture, Introduction To Machine Learning, Computational Neuroscience, Operating Systems, Multimedia Systems, Special Topics In Computers-ii, Computer Vision, Software Lab