Divyanshu

Bachelor of Technology
in Computer Science and Engineering
Punjab Engineering College, Chandigarh

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EDUCATION

Degree	Institute/Board	CGPA/Percentage	Year
Bachelor of Technology	Punjab Engineering College, Chandigarh	8.6	2021-2025

EXPERIENCE

- **Cisco**   *Jan 2025 - June 2025*
  SDE Intern   Bengaluru
  - Designed and developed a **plugin-based Certificate Lifecycle Automation System** with Python, MySQL, and SQLAlchemy, enabling automated SSL/TLS certificate renewal, validation, and deployment across distributed hosts and load balancers.
  - Exposed **RESTful APIs** and built a Flask-based UI for lifecycle operations (renewal, deployment, audit), with role-based access and monitoring via cron, improving operational efficiency and integration with CI/CD workflows.
  - Built an **LLM-powered RCA Agent** architecture for log-based troubleshooting on container platforms. Designed modular agents with priority-based alert preemption.
  - **Technologies:** Python, Bash, MySQL, Postman, Jenkins, SonarQube, ACME, OpenSSL, Flask, Agile, Unit Testing & Debugging
- **iRage Capital**   *Jan 2024 - June 2024*
  Quant Intern (HFT)   Mumbai
  - Worked on **Order Management and Market Making (OMM)** strategy on an FPGA platform, dynamically updating a 32-strike option chain using real-time index futures data. Automated order replacements at the hardware level, reducing total execution time by **30% from tick to transmission**.
  - Enhanced a real-time arbitrage strategy with **ultra-low latency** using Python for analytics and C++ for implementation.
  - Led the creation of a **strategy log analysis** framework to identify and mitigate loss sources, reducing unnecessary losses.
  - **Technologies:** C++, PostgreSQL, Python, Bash, GDB, Thread pooling, Apache Spark

RESEARCH PROJECTS

- **Diagnosis of Major Depressive Disorder using EEG**   *Sep 2023 - Dec 2023*
  Techstack : Python, SkLearn, Tensorflow, React, Django
  - Leveraged **EEG signals** for the diagnosis of Major Depressive Disorder **(MDD)**
  - Demonstrated proficiency in handling complex, nonlinear data by applying advanced pre-processing techniques like **ICA**.
  - Trained machine learning models and deep learning models like **Random Forest** and **CNN** on the generated dataset for Classification (Max R2 : **95%**).
  - Collaborating with **PGIMER, Chandigarh** to talk about further scope of the project.

PROJECTS

- **Dish**
  C, Linux, Operating Systems   **Github**
  - An interactive shell made in C which simulates the **bash/zsh shell** and supports all **shell commands, piping and redirection**. It also has a variety of user built commands along with **extensive signal and error handling**.
  - Implemented features such as **process management**, **interprocess communication**, and **file management** through **system calls** while exploring OS services.
  - Developed a **modular and extensible architecture** with separate modules, ensuring scalability and maintainability.
- **SymptoSense**
  React.js, Python, TensorFlow, Django, Web Crawling   **Github**
  - A **ML web-app**, developed using **React** that predicts diseases based on symptoms.
  - Implemented ML models trained on **Kaggle datasets**, utilizing **TensorFlow** for model building and analysis within JupyterLab.
  - Integrated **backend** functionality with **Django**, enabling symptom synonym detection, disease prediction, and disease **information retrieval using web crawling** and **NLP techniques**.

SKILLS

- **Languages**: C++, Python, SQL
- **Backend Development**: Django, NodeJS, REST APIs, Distributed Systems
- **Tools & Technologies**: Linux, Git, Docker, Apache Spark, Postman, Kubernetes

ACHIEVEMENTS/ CERTIFICATIONS

- **Flipkart Grid 6.0**, Semi-Finalist, **National Rank < 20** out of 500k applicants
- **Codeforces**, Best Rating: 1702 (**Expert**) , Profile : crabbyXpiggy
- **Contest Ranks**, Best Global Ranks of **281**(Div-2), **959**(Div-2) and **606**(Div-3) in Codeforces Round 795, 794 and 786.
- **Leetcode**, Best Rating: 1990 (**Knight**) , Profile : divyanshuverma
- **Contest Ranks**, Best Global Ranks of **185** (Biweekly Contest 129) out of 25287 participants and
  516 (Biweekly Contest 131) out of 30286 participants.
- **STGI Sponsored Hackathon Winner (2022, 2023)**, Developed NLP based and Django based projects respectively.
- **30 Days of Google Cloud**, Google Cloud Platform   *https://shorturl.at/cnU26*
- **Amazon ML Summer School 2023**, Selected out of tentatively 46k applicants