SHIVANSH PRATAP SINGH

Noida

📞 +91-9560359771 ✉ engrshivansh@gmail.com 🔗 Shivansh ⊙ GitHub

EXPERIENCE

Cadence Design Sytems   **Feb 2024 – Present**
Software Engineering Intern   *Noida*

- <u>**Responsibilities:**</u> **Debugging and writing** code for **Allegro** and **OrCAD X** software primarily using **C++ and Qt** framework.
  Implementing and designing REST APIs to facilitate proper data handling for **library management and authoring** features, ensuring smooth operation on the client-side. Collaborated on architectural decisions, including data flow from the client-side and server communication.
  Utilized **Linux** to **design and implement unit tests** for existing and new features, regular integration testing and regression testing and managing build environments, contributing to a streamlined **CI/CD** development process.
- <u>**Impact and Highlight:**</u> I **developed new features for the DEHDL-flow in Allegro**, focusing on symbol editing, where I wrote the code, collaborated on design and data handling. Ensured functionality through unit and integration testing and the features will go live in the **24.1 release of the software**. Took ownership of a feature-set complete with all their functions and APIs closely working with other teams to fix new bugs as development went on.

Datacouch.io ↗   **Nov 2022 – March 2023**
Intern

- **Individual AI ML Project-**
  1. **Face mask/glasses detection in Python** using Google Colab.
  2. Zoom Attendence Automation Using **Webhooks and Zapier API**s.
- **Creating Consulting Presentations**
  1. Various Cloud Storage Solutions (AWS, S3, Azure, Snowflake, GCP).
  2. Apache Airflow, along a short blog.
  3. Power BI. Made a tutorial for various visualizations using Power BI with real customer data.

PROJECTS

Deep Learning Based Disease Detection in Plants (Major-2) ↗ | <u>Python</u>

- Determining and classifying images of plant leaves according to their diseases and stage. By using **Tensorflow and Keras in Python** to create, optimize and tune a **CNN** for classification of images with high accuracy.

Spam Email Detection using Machine Learning (Major-1) ↗ | <u>Python</u>

- Using **Logistic Regression** to determine wether an email is spam or not, creating and fitting the model to a sample database. Calculating the accuracy of the model.

IoT based medicine reminder and email alert system (Minor) ↗ | <u>Arduino Language, Electronics</u>

- Utilizing **NodeMCU** and physical sensors programmed through **Arduino IDE**. An alarm using NTP server to remind medicine and an ultra-sonic sensor to ensure medicine is taken triggering an Email using the SMTP library to the specified email.

TECHNICAL SKILLS

Languages: Python, C++, SQL

Developer Tools: Perforce, Git, Docker, Conda, Jenkins, VMWare, MySQL, Maven, Jenkins, Selenium WebTesting, TestNG, Trello, StarUML, Power BI

Technologies/Frameworks: Linux, GitHub, Docker, Perforce, CI/CD, Agile, DevOps

EDUCATION

UPES Dehradun   **2019 − 2023**
B.Tech - CSE - **CGPA - 7.94**   *India*

Delhi Public School, Greater Noida
Class XII - CBSE - **Percentage - 80%**   *U.P , India*

Delhi Public School, Greater Noida
Class X - CBSE - **Percentage - 91.2%**   *U.P , India*