Dhruv Poduval

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EDUCATION

PES University	2021-2025
B.Tech Computer Science	*Current GPA: 8.44/10*
National Public School	2019-2021
	12th% - 96.8%

COURSEWORK

Courses: Data Structures and Applications, Design and Analysis of Algorithms, Machine Intelligence, Database Management Systems, Data Analytics, Database Technologies, Object Oriented Design and Analysis, Generic Programming in C++.

Awards: 2x recipient of the MRD Scholarship for placing in the top 20% at the end of the semester.

SKILLS

Languages: C/C++(intermediate), Python, JavaScript(basic), HTML/CSS(basic), Java(basic), MySQL, MongoDB
Tools: Git/GitHub, VS Code, Docker

Libraries and Frameworks:ReactJS, NodeJS, Express, Flask, REST API's

PROJECTS

File Metadata Analyzer | *C++, Templates, Generic Programming*
- Built a File Metadata Analyzer using templates and generic programming in C++.
- Applied the concept of templates, including variadic templates and template specialization, to read information about different kinds of files and display the corresponding metadata.
- Also applied concepts and constraints in the project to restrict template behavior based in file type.

Stock Portfolio Management System | *Python, Flask, API(Finnhub). MySQL, Database Management*
- Developed a basic stock portfolio management system using python Flask, and stock API's to get real time data about prices of stock.
- The system allowed users to buy and sell stocks based on the prices of the stock at that particular time, and see how profitable the transaction was. All the information was stored in a database.
- The API was used to get real time stock prices. And using these prices, graphical representations were provided for the stock based on a yearly, monthly, or daily basis.

Sentiment Analysis using Deep Learning | *TensorFlow, python, cv2, VS Code*
- Built a project that could detect emotion from an image of the face.
- Used convolution neural networks with TensorFlow to train a model on a set of over 800 images, which then detected 7 different classes of emotion.
- Added a functionality where the system could access a webcam and detect emotion in real time.

INTERNSHIPS

CDSAML Summer Internship | *Researcher*   June-July '23
Joined the CDSAML summer Internship program in campus and worked on a real world problem for two months. Did Research on the task of Handwritten Mathematical Expression Recognition. Successfully trained and replicated results from an existing model and tested out the model on some other custom made datasets containing images from specific mathematical categories. Learnt a lot about the process of research.