Yuvraj Rathi

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EDUCATION

Jaypee Institute of Information Technology — Noida, IN
Integrated Masters of Technology in Computer Science — *Oct 2022 – 2027*

Delhi Public School, Surat — Surat, IN
X: 96.2, XII (PCM with CS): 93.2 — *2022*

TECHNICAL SKILLS

Languages: Python, C, C++, Elixir, HTML5/CSS, JavaScript, MySQL, LaTeX, Git

Frameworks: React, Flask, Streamlit, Django, Phoenix, LiveView

Libraries: Pandas, NumPy, Matplotlib, Tensorflow, PyTorch, PyGame

Other: Options Trading, Black–Scholes Model, and Binomial Model for Option Chain Pricing

EXPERIENCE

Screener.in - dumbfill.com | *Python, Elixir, Django, LlamaIndex* — October 2023 - Present

- Spearheaded the end-to-end development of Dumbfill.com, employing agile methodologies to ensure rapid iterations and feature enhancements. Implemented microservices architecture to enhance scalability and maintainability.
- Took charge of the backend of the machine learning pipeline that powers Dumbfill.com. Leveraged advanced technologies, including LlamaIndex, qdrant and pypdf to extract and process data efficiently. Implemented a robust and scalable backend infrastructure to ensure seamless integration and data retrieval.
- Utilized Django (Python) as the web service to build a secure and responsive platform. Implemented best practices in software development to create a stable and high-performance application.

PROJECTS

Omilia | *Python, Pygame, Git* — April 2023

- Designed and developed an e-learning dialect learning game using Python and Pygame to facilitate language acquisition for children with special needs.
- Implemented custom game mechanics, GUI using Python libraries, resulting in an interactive and user-friendly learning experience for children with varying cognitive abilities.
- Designed Frontend by harnessing the power of various design tools such as Canva, Figma, and Adobe Illustrator, delivering an engaging and visually impressive user interface.

SignSense | *Python, Tensorflow, Streamlit, Pygame, Git* — March 2023

- Developed a sign language detection program using a machine learning model trained on self-collected and labeled hand image data.
- Utilized OpenCV and NumPy for image processing, Pandas for data analysis, and TensorFlow for building and training the machine learning model in the development of a sign language detection program.
- Developed frontend of the app using Pygame module to create interactive and engaging graphical user interface.

Stock Price Predictor | *Python, TensorFlow, yfinance, Streamlit, fbprophet* — March 2022

- Designed and developed a stock price prediction application that utilizes TensorFlow and Yahoo Finance data models and incorporates a proprietary algorithm to forecast stock prices.
- Developed an intuitive and user-friendly UI for a stock price prediction application using Streamlit as the frontend module.

ACHIEVEMENTS

OSDHack Winner (48Hr Hackathon) | *1st place out of 400+ participants* — April 2023
CodeJam /v3 Winner (24Hr Hackathon) | *1st place out of 200+ participants* — Jan 2023
BitBox 3.0 (12Hr Hackathon) | *Top 5 out of 800+ participants* — March 2023