Soham Padia

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Objective

A diligent third-year Information Technology student at D.J. Sanghvi College of Engineering, adept in Artificial Intelligence, Machine Learning, and Web Tech, seeking opportunities to further enhance my skills and apply my knowledge in real-world projects. Proficient in Python programming and experienced in developing projects showcased on GitHub, including a portfolio website demonstrating coding, UI, and UX capabilities. Passionate about continuous learning and personal growth.

Education

Dwarkadas J. Sanghvi College of Engineering, Vile Parle, Mumbai, India **2021-2025**
Bachelors of Technology in Information Technology *GPA: 7.33/10*

Nirmala Memorial Foundation Junior College of Commerce and Science, Mumbai, India **2019-2021**
Higher Secondary Education in Engineering *Percentage: 90.8%*

A.B.V.M A J Kosh's Seth Juggilal Poddar Academy, Mumbai, India **2009-2019**
Indian Certificate os Secondary Education (ICSE) *Percentage: 96.4%*

Technical Skills

Languages: C, C++, Bash/Shell, Rust, Java, SQL, Dart, Typescript, Javascript, Python, Go, HTML, css, PHP, LaTeX
Web Technologies: React, Vue, Angular, Next, Nuxt, Firebase, Supabase, Postgresql, MongoDb, Tailwindcss, Vercel, Netlifly
Software & Tools: Git (command line expertise), Github, VS Code, Android Studio, Linux, Terminal, AWS, Google Cloud
AI/ML Technologies: Google Colab, Jupyter Notebooks, NLTK, Spacy, Computer Vision, YOLO, PyTorch, Tensorflow

Work Experience

EdYou Abroad **April 2023 – May 2023**
Freelance Web Developer *Mumbai, India*

- Developed a commercial website using React and Supabase, showcasing creativity and technical expertise.
- Managed client communications, translating requirements into features and meeting project milestones promptly.
- Displayed initiative and self-management, navigating challenges of independent work and delivering a high-end project.

Research Experience

NLP Techniques in Chi-Square Tests and Feature Selection **September 2023 – Present**
Research Project under Dr. Abhijit R. Joshi *Mumbai, India*

- Engaged in an in-depth research project utilizing Natural Language Processing (NLP) techniques to enhance the efficiency of Chi-Square tests and refine the process of feature selection in advanced machine learning models.
- Deepened my analytical and computational capabilities by innovatively fusing Natural Language Processing (NLP) techniques with comprehensive statistical analyses, aiming for superior data interpretation and optimization.

Enhancing Public Speaking Skills through Deep Learning, Computer Vision and NLP **August 2023 – Present**
Research Project under Prof. (Mrs.) Sweedle Adley Machado *Mumbai, India*

- Leading this project centered on leveraging state of the art Natural Language Processing, Computer Vision and Deep Learning technologies to give personalised improvements that cater to the needs of individuals.
- The project's core functionality focuses on real-time evaluation of verbal cues, body language, and audience engagement, providing instant feedback and actionable insights to enhance speaker performance and audience connection.

Significant Projects

My Portfolio Website | *React, Tailwind, JavaScript, GitHub Pages, Framer Motion Git* **February – March 2023**

- Designed a personal portfolio website to showcase my coding skills and demonstrate my expertise in UI and UX design.
- Utilized a combination of react, tailwind, javaScript, and framer motion to build the website, hosted on GitHub Pages.
- Incorporated dynamic animations and transitions using Framer Motion to enhance the overall user experience.
- Served as a pivotal milestone, showcasing both my dedication and technical proficiency in web development.

Siamese Neural Networks Research Project | *Jupyter Notebook, Python Git* **August – September 2023**

- Studied and successfully implemented a research project focusing on the development of Siamese Neural Networks.
- Referenced a research paper from Carnegie Mellon University and implemented with the help of tutorials from YouTube
- Implemented the project using Jupyter Notebook, with the entire code hosted on GitHub.
- Built and embedding layer using Conv2D, Max Pooling, and ReLU. Used Binary Cross, Entropy Loss, and Adam Optimizer to train the Neural Network. Obtained a precision and recall of 0.99+.
- Achievement: Gained deep insights into neural networks and enhanced programming skills in Python.

Text Summarizer | *Python, Jupyter Notebook, Huggingface Transformers, NLTK Git* **September 2023**

- Developing a tool to condense large texts using Huggingface Transformers and NLTK and extracting vital information.
- Inspired by a similar project by Krishnaik06, with personalized enhancements to be implemented.
- Current achievements include successful implementation of core functionalities and hands-on experience with NLP technologies.

YOLOv1 Implementation | *Python, PyTorch, OpenCV Git* **September 2023**

- Implemented YOLO v1 real-time object detection system as outlined in Joseph Redmon's paper, guided by YouTube.
- Converted object detection to a regression task, predicting bounding boxes and class probabilities in one step.
- Developed using Python, PyTorch, and OpenCV, translating complex research paper into functional code.