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EDUCATION

Dwarkadas Jivanlal Sanghvi College of Engineering, Mumbai, India

December 2020 – June 2024

Candidate for Bachelor of Technology in Computer Engineering

CGPA:9.42/10

TECHNICAL SKILLS

Languages: C, C++, Python, Java, JavaScript, R.

Tools and Framework: Git, GitHub, SQL, NumPy, Pandas, Matplotlib, Seaborn, Scikit-Learn, Selenium, BeautifulSoup, TensorFlow, Keras, PyTorch, Hadoop, FastAPI, Django, LaTeX, Docker, AWS, Azure, MATLAB.

WORK EXPERIENCE

Data Science Intern

August 2023 - Present

Infihel Healthcare Private Ltd, Mumbai, India

- **Spearheading a team** of 10+ people in developing a mental health chatbot using BERT and Langchains to improve users' emotional and mental well-being.
- Streamlined a data pipeline, **reducing manual input errors by 80%** while processing 50,000+ text samples directly from browsers.
- Accomplished **100 concurrent messages/minute and 99.9% uptime** by deploying chatbot models on AWS via EC2 Cluster with Docker/GitHub.
- Conducted user research to acquire information and improve the chatbot's effectiveness in addressing mental health issues.

Machine Learning Intern

April 2023 - July 2023

Bloomscope LLP, Mumbai, India

- Developed an Ed-Tech platform with Machine Learning and Generative AI, minimizing **admin workload** and improving **students' learning experience**.
- Leveraged OpenAI APIs to simplify complex science and mathematical concepts, **resulting in a 15% increase in student engagement**.
- Attained a **20% enhancement in response time** by deploying the models on Azure cloud infrastructure and optimizing real-time data processing.

RESEARCH PUBLICATIONS

- Published "**EADDA: Towards Novel and Explainable Deep Learning for Early Alzheimer's Disease Diagnosis Using Autoencoders**" in **Scopus Indexed Journal**, "*International Journal of Intelligent Systems and Applications in Engineering (ISSN:2147-6799)*." (2023)
- Presented findings on "**Improving Chronic Kidney Disease Prediction using ANN with Normalization**" at the "*4th International Conference on Data Science and Applications, 2023*" and accepted for publication in the **Springer Book Series**, "*Lecture Notes in Networks and Systems*."
- Presented "**Secure Peer-to-Peer Communication using Private Network Blockchain Technology**" at the "*3rd International Conference on Advanced Computing Technologies and Applications, 2023*" and accepted for publication in **IEEE Xplore**.

PROJECTS

Cybersorter: Python, NumPy, Pandas, NLTK, Scikit-Learn, Streamlit, Natural Language Processing

- Built an end-to-end data science web application to **mitigate cyberbullying** through **moderation** in social media, gaming, and online forums.
- Performed data extraction, preprocessing and tokenization using NLTK on more than **10,000 samples**, and subsequently applied SVM with a radial basis kernel to **achieve 92.5% accuracy**.
- Utilized Streamlit Cloud to **deploy** the application **allowing for seamless hosting**.

AutoGenius: React.js, Python, NumPy, Pandas, Matplotlib, Scikit-Learn, Redis, FastAPI

- Developed an ML-driven E-car sales platform that facilitates better decision-making through **data-driven pricing, interactive visualizations, and model comparisons**.
- Implemented Linear Regression for accurate car price prediction with an **RMSE score 0.005** and applied K-Nearest Neighbours algorithm for **customized car recommendations**.
- Integrated Redis with FastAPI to perform queries with **minimal network traffic & optimize performance**.