SAMVIT JATIA

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EDUCATION

ASHOKA UNIVERSITY   Sonipat, HR
Advanced Major in Computer Science; Concentrations in Economics and Entrepreneurship   May 2024
Bachelor of Science and Post Graduate Diploma

LA MARTINIERE FOR BOYS   Kolkata,WB
ISC, ICSE - Accounts, Math, Economics, Commerce, English (Graduated with 94%)   May 2020

WORK EXPERIENCE

REDIMINDS, INC   Southfield, MI
AI Enabler Engineer   Jan 2024– Present
- **Led the backend migration** from a Python-based Flask framework to a TypeScript-based Node.js architecture, enhancing performance and scalability of the system.
- Collaborated on building an **AI-automated system for US-based Independent Dispute Resolution Entities** to determine case eligibility for health insurance disputes.
- Developed and **trained machine learning models** to classify and extract text from specialized documents.
- Applied parameter-efficient fine-tuning methods, such as LoRa & QLoRa, to enhance performance for Medical LLMs.

INTERNSHIP EXPERIENCE

ZENSAR TECHNOLOGIES   Pune,MH
Software Engineering Intern   Jun 2023 – Sep 2023
- Developed batch processing scripts to parse and **analyze large codebases using LLMs** for conversion.
- **Implemented internal AI tools** such as a chat-based HR hiring bot using vector embedding and semantic search.
- Collaborated on modernizing old legacy codebases for corporate clients by implementing generative AI solutions.

GOOD GAME NATION   Chennai, TN
Founder's Office Intern   April 2022 – Sep 2022
- **Led development for the Proof Of Learning Protoco**l, a blockchain-based system for automating student verification.
- Implemented a blockchain framework design integrating decentralized identifiers (DID) and low-cost blockchains.
- Engaged with over 15 industry leaders, successfully **converting 3 companies** to onboard Web3 solutions.

TAGGED INFOTECH SOLUTIONS   Kolkata, WB
Founder's Office Intern   April 2019 – Sep 2019
- Assisted in delivering an inventory management solution using a Java-based system for tracking assets & stock management.

PROJECTS

VACCINE & ANTIVIRAL DRUG RESEARCH   March 2024
- Developed a **Transformer-based model for predicting protein sequences**, to aid in **biological research and vaccine development**.
- Used tokenization, vocabulary creation, masked language modeling to improve sequence prediction, achieving an accuracy of 93%.

CRYPTOCURRENCY   May 2024
- Built a **cryptocurrency on Ethereum's blockchain network** using solidity to simulate an Initial Coin Offering (ICO).
- **Designed and deployed smart contracts** for minting, token buying, and ETH-to-token conversion using Solidity.

CAPSTONE THESIS   Dec 2023
- **Built a transformer model from scratch** using multi-head self-attention & feed-forward networks for text generation.
- Trained the model on 40,000 lines of Shakespearean texts to fine-tune language processing, benchmarking its performance against CNN and RNN architectures.

CLIENT-SIDE HASHING ALGORITHM   July 2023
- Implemented client-side hashing for IoT devices with limited computation to **offload server's computational cost**.
- Utilized canonicalized usernames and domains to **generate individual salts on the client-side**,offering flexibility in configuring security measures.

ACCOMPLISHMENTS

STARTUP ASHOKA   Feb 2024
- Placed **3rd Amongst 40+ startups** in Ashoka University's startup competition, **received ₹15,000 in pre-seed funding.**

TEST SCORES   April 2020
- SAT - 1520 (720 English, 800 Math), Calc BC - 4/5, Microeconomics - 4/5, Macroeconomics 4/5.

SKILLS

Machine Learning: Python, Tensorflow, Pytorch, Scikit-learn, HuggingFace, LLaMa, NER, Spacy
Backend: Node.js, Express, PostgreSql, Axios, Flask, Typescript, Jest
Frontend: HTML, CSS, JavaScript, React, EJS