

Siva Kumar Reddy Surasani

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SKILLS

Top skills: Python, PHP, Golang, MySQL, Restful APIs, GIT, Graph Theory, NLP, MongoDB, Machine Learning, OpenMP

Previously Used: AWS, Java, jQuery, JavaScript, C++, Elasticsearch

EXPERIENCE

Software Developer

Sep 2023 - Present

University of North Texas | Denton, TX

- Engaged in material science research, optimizing stress-strain graphs and extracting data from over 200 research papers.
- Performing in-depth analysis of 10 key parameters of materials using **AI models** and developing a custom model to predict high entropy alloy compositions.
- Developing software for hypergraphs to insert, delete, and update edges in large-scale social networks.

Senior Software Engineer

July 2022 - Aug 2023

Justdial | Bangalore, India

- Developed APIs and login/signup web pages for KYC management, enhancing verification accuracy by 30%.
- Build APIS for Justdial's fintech vertical - 'Jdpay' which is generating daily transactions worth 20 Million INR.
- Optimized tables, stored procedures, and functions, resulting in a 20% improved database performance.
- Built a **Python**-based image cropping tool using openCV, increasing image processing efficiency by 70%.

Software Engineer

Aug 2020 - June 2022

Droom | Gurugram, India

- Created web pages for listing creation, and auction management of vehicles enhancing user and seller experience, contributing to a 25% increase in listing efficiency and a 15% faster auction processing.
- Engineered listing-matching **APIs**, delivering the three best matches and boosting user traffic by 20%.
- Developed an AI-driven mechanism to recommend the top 5 vehicles based on user requirements integrating eco-inspection reports, and boosting search efficiency and conversion rates.

EDUCATION

University of North Texas, Denton | Master of Science in Computer Science

GPA: 4.0 / 4.0

Indian Institute of Information Technology, Kota | Bachelor of Technology in ECE

GPA: 3.4 / 4.0

COURSEWORK

Graph Theory, Data Structures and Algorithms, Operating Systems, Databases, Feature Engineering, Machine Learning, Special Problems, Data Mining, and Software Engineering.

ACADEMIC PROJECTS

Accessibility Chatbot

github.com/sivasurasani/A11Y-ChatBot

- Provides Accessibility guidelines and best practices for building web applications using 1000 rows of scrapped data.
- API built by finetuning the BERT model with custom data gave more than 90% accuracy.
- Technologies: Python, Scikit-Learn, React.js, Flask, NLP, TensorFlow, RAG, and Amazon Web Services (AWS).

Portfolio Website

github.com/sivasurasani/portfolio

- Created a personal website showcasing projects, research, and skills with an interactive and responsive page.
- Technologies: React.js, CSS, HTML, and Node.js

CERTIFICATIONS

Designing RESTful APIs

Machine Learning with Python: Foundations