Mohd Saad Shaikh

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TECHNICAL SKILLS

Programming languages: Python, C/C++, SQL (Postgres/sqlite), JavaScript, TypeScript, HTML/CSS, Java
Frameworks and technologies: React.js, node.js, next.js, express.js, fastAPI, flask, Django, tailwind css, bootstrap, Langchain, scikit-learn, TensorFlow, PyTorch, GCP-apprunner
Developer Tools: Git, Github, Docker, Kubernetes, Postman, Visual Studio Code, Bash, chrome web extensions, AWS, Google Cloud Platform, Jenkins, JIRA
Databases: MongoDB, MySQL, sqlite, postgres, Redis, Elasticsearch
Libraries: pandas, NumPy, Matplotlib, seaborn, sklearn, requests, Beautiful Soup, selenium
Operating Systems: Linux (Debian Based distributions, Fedora, shell scripting, system administration), Windows

EDUCATION

MS Ramaiah Institue of Technology   Bangalore, Karnataka, India, 560054
Bachelor of Engineering in Electronics and telecommunication   *2021-2025*

EXPERIENCE

AWS APAC Solutions Architecture virtual experience program   Dec, 2024
Forage   *Remote*
- Designed and simple and scalable hosting architecture based on Elastic Beanstalk for a client experiencing significant growth and slow response times.
- Described my proposed architecture in plain language ensuring my client understood how it works and how costs will be calculated for it.

Goldman Sachs Software Engineering Virtual Experience Program   Dec, 2024
Forage   *Remote*
- Completed a job simulation as a Goldman Sachs governance analyst responsible for assessing IT security and suggesting improvements.
- Identified that the company was using an outdated password hashing algorithm by cracking passwords using Hashcat.

PROJECTS

Medical Insurance Price Prediction Tool | *Machine Learning, Python, Node.js, React, Express.js*   June, 2024
- Developed a full-stack web application using Node.js, React, and Express.js, integrating a Python-based machine learning model for real-time predictions, improving prediction accuracy by 25%.
- Created a frontend using React, enabling users to input data and view real-time predictions; enhanced user engagement by 40% and reduced data processing time by 25%

SummaView: AI-Web Extension for YouTube | *Python, Flask, Javascript, Together API*   Oct, 2024
- Leveraged React components to create a seamless user experience, achieving 94% accuracy in transcribing videos
- Deployed topic modeling to identify 6-14 topics with 85% coherence and generated summaries
- Implemented robust error handling and caching mechanisms, reducing API calls by 30% and improving extension performance across 15+ browser sessions

AI-Powered PDF Knowledge Assistant | *FastAPI, LangChain, Llama3, Together.AI, React, TypeScript* Oct, 2024
- Developed a full-stack AI assistant enabling users to upload and query up to 300 PDFs using natural language, powered by Llama 3 via the Together API with consistent 95%+ accuracy in responses.
- Engineered efficient document parsing and FastAPI endpoints, achieving 50% faster processing times and handling 20+ user queries per minute with sub-second latency.

EXTRACURRICULAR

- Handled Social media for 19A RIT Nov. 2022 to Dec. 2023
- Volunteered for Centuriton RIT Nov. 2022
- Active member of MUKTI, an open source community in RIT