Santhosh Sachin

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EDUCATION

Amrita Vishwa Vidyapeetham   **September 2021 - Present**
Bachelor Of Technology | Computer Science and Engineering   CGPA: 8.41/10 (Upto 6th Sem)
AVP Trust National Matric School   **June 2017 - May 2021**
Higher Secondary Education   12th std Marks: 97.8%

EXPERIENCE

Software Engineering Intern | Fidelity Investments   **June 2024 - Aug 2024**
• Piloting the migration of the 10+ services from AWS EKS to Fidelity's Starling portal
• Developed an OpenAI-powered MS Teams assistant with 3+ endpoints, fine-tuned on specific documents for onboarding and organizational assistance, reducing onboarding operations time by 80%

AI Research Intern | Lam Research   **May 2024 - Present**
• Developed Proof of Concepts to enhance LAM Research's Supply Chain Management, including piloting migration from relational to Graph Databases, targeting 30% reduction in complex query times
• Implementing graph based analytics to identify supply chain bottlenecks and demand forecasting, potentially reducing production delays by 10% and could potentially improve overall efficiency by at least 20%

PROJECTS

One-View   **Jun 2024 – Aug 2024**
• Implemented a RAG-based Azure OpenAI chatbot using AWS OpenSearch, S3, and deployed on EC2 for Fidelity Investments' organizational assistance.
• Enabled real-time answers from 1000+ sources, including Excel, APIs, and web-crawlers, within strict access limits.

Zephyr AI - A Vision towards open-source Local AI Agents   **Oct 2023 – Nov 2023**
• Developed a fully functional Conversational AI agent using open-source LLM and Streamlit; currently fine-tuning LLaMA 13B model to potentially improve performance in Mathematics and Neural Network problems by up to 15%.
• Exploring RAG and LLM chaining with LLaMA 70B/Mistral 8x7B models to potentially expand use cases by 20-30%.

Demand Forecasting using Graph Technologies   **May 2024 – Present**
•Developed a Supply Chain Framework using Graph Neural Networks, Temporal Knowledge Graphs, and Graph Databases for demand forecasting, securing a $50K grant.
•Enhanced LAM Research's capacity planning and demand forecasting with advanced graph technologies, leading to organizational investment.
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TECHNICAL SKILLS

Areas of Interest: Software Engineering, Data Science, Machine/Deep Learning, Generative AI, Web Development
Languages and Frameworks: C, C++, Python, Java, Rust, MySQL, Postgres, Mongo, Flask, FastAPI, React.js, Node.js, TailwindCSS, Next.js, DGL, Pytorch, Tensorflow, OpenCV, Seaborn, Matplotlib, Numpy, Pandas, Langchain
Other Tools and Technologies: Git, Linux, Firebase, Docker, Kubernetes, AWS EKS, AWS EC2, S3 , Opensearch, IBM WatsonX , AWS Sagemaker,, Azure ML, LLMs , Open-AI , Anthropic

COURSEWORK

• Operating Systems • Data Structures and Algorithms • Data Science • Computer Networks
• Database Management System • Machine Learning • Business Analytics • Neural Networks and Deep Learning

VOLUNTEERING & LEADERSHIP

GDSC Amrita Chapter | AI-ML Lead
• Hosted AI Workshops and Mini Hackathons within the campus for juniors and offered them an Open Source Model Building platform which I built, impacting the learning of 300+ new learners