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Svinayjose.com

2018 – 2020 CGPA: 8.47/10

Feb '24 – Present

Apr '22 – Sep '23

July '19 - June '20

[developed at Hyreo Inc.]

Trivandrum

Bangalore

> Built an Autonomous Multi-Agent System for portfolio product using LLMs - GPT-4, Openhermes, etc.

Skills: Python, LLMs, RAG, Langchain, CrewAI, FastAPI, Shell, MongoDB, AWS, QdrantDB, ReactJs

Hyreo Technologies

Software Engineer

- > Led the team that developed SaaS Virtual Assistants 65% queries automated, 5 MNCs onboarded
- > Implemented new chatbot architecture for faster deployments reduced client onboarding times by 3x
 > Initiated performance monitoring process for all client chatbots and improved accuracy from 61% up to 89%

Skills: Python, NLP, Flask API, RASA, Shell, MongoDB, SQL, Git, Docker, Microsoft Azure, K8s, Jenkins CI, Jira

Tata Motors Ltd. Senior Manager

Jan '21 - Apr '22 Pune

Pune

> Worked in Product Development - coordinated digital design, validation & testing, prepared DFMEA reports
 > Analysis of supplier issues and customer feedback to detect defects & create dashboards

Skills: Product development, Customer centricity, Stakeholder management, VBScript, MS Excel, Catia V5

Tata Motors Ltd.

Research Intern

- > Completed the project: Accelerated Topology Optimization using ResNet-based Modified U-Net
- > Developed an ML architecture from scratch to predict the solution of 2D Topology Optimization problem
- > Posed as an image segmentation problem, a U-Net model with skip connections like resnet was used.
- > Achieved results with accuracy (93.7 % in test) higher than previously published models

Skills: Python, Computer Vision, SQL, Pandas, NumPy, Pytorch, Scikit-learn, Catia V5 Macros

</> </> </> Projects

Intelligent Virtual Assistant with NLU for CRM - SaaS product

- > Developed chatbots using RASA framework for users to raise concerns & answer queries using NLU
- > Built REST API layer using Flask for ticketing and operations handles 100k requests per month
- > The new bot architecture enabled faster feature shipments enabling 3x faster client onboarding

Multi-Agent system to chat with Open Source Github Repositories

- > Used crewAI framework to create different RAG agents to load the files from github, create vectors and extract information
- > Powered the LLMs using Gemma LLM API endpoint from Google.

K X Vinay Jose

🔁 Education

National Institute of Technology, Karnataka

M.Tech in Design & Precision Engineering

🕒 Experience

Dbiz.Ai

Software Engineer

Atliq Technologies Sales Data Analysis & Visualization using MySql, PowerBI

[»demo«]

- > The real sales data of Atliq Technologies was cloned from CodeBasics (made public for academic purposes)
- > MySql was used for data wrangling and analysis, PowerBI used to create a visualisation dashboard
- > Insights were drawn on zone-wise sales all over India and identify top products, sales/profit margins, etc.

Other Projects

- > Automation tool to test and report chatbot model accuracy for real data provided by users
- > Descriptive & Predictive Analyses of COVID-19 Student Learning Loss using R
- > Mutual Fund Portfolio Performance Prediction Analysis Case Study
- > Data Visualization & Descriptive Analytics for Gender Gap Study in Employees DB using SQL and Tableau
- > Fake Job Postings Classifier using Random Forest Classifier and other models

🗱 Skills

Programming Python, LLMs, Computer Vision, NLP, Shell, SQL, MongoDB, ReactJS, NodeJS
Technologies & Tools Git, Microsoft Azure, AWS, Docker, Kubernetes, Jenkins, Jira
Frameworks LangChain, Flask, Pandas, NumPy, Pytorch, Scikit-learn, RASA, ExpressJS

Achievements & Certifications

- > Recipient of the annual excellence award, "Making a Difference", at Hyreo Technologies in December 2022
- > Qualified in 97th percentile for GATE (Mechanical Engineering) 2018
- > Ranked in the top 1% of students nationwide in the CBSE 12th board examinations in 2013
- > Practical Deep Learning for Coders by Jeremy Howard of fast.ai in February 2024