Bindu Madhavi Vempati

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Experienced Engineer with a strong background in GenAI, AI, automation, and data insights, recognized for innovative solutions and leadership in complex projects at Cisco Systems. Proficient in leveraging advanced AI models and tools to drive efficiency and customer satisfaction.

WORK EXPERIENCE

Generative AI Engineer
Bangalore, India

Cisco Systems (TEAM CX Insights & ONEx AI Solutions)
Sep 2023 - present

- Worked on an **IRIS** project where we utilized GenAI (Cisco's ChatGPT, open-source models like llama, mistral) to generate SQL queries based on user questions. These queries were executed in the backend, and insights and charts were created from the resulting data.

- Built a RAG system that allows users to upload documents and perform Q&A. This system helps users get answers to their queries without having to manually go through the documents. used various embedding models, chunking methods, vector db and reranking modules.

- Worked on a **BIaaS** project where I automated the creation of quarterly CX slides, generating insights with GenAI and creating graphs using Plotly and ECharts.

- I handled queuing application requests using semaphores, set up logging, generated SSL certificates, implemented auto-suggestion using tries, generated sample datasets through queries based on user questions, and deployed applications on Linux virtual machines and GPUs.

Network Consulting Engineer
Bangalore, India

Cisco Systems (Business Critical Services)
Aug 2019 - Aug 2023

- Built a website to automate audit delivery with automation and structured reporting. A zip file of audit is given as input to the website and this data is filtered to get the exceptions and presented in a table format where users can add recommendations and generate the reports. This helped in reducing human efforts by 40%.

- Built Health checks scripts for some platforms. These scripts are executed on a weekly basis to collect some show commands from the devices and generate excel reports if there are any exceptions. This helped customers in monitoring their network devices.

- Extracted data from 1800+ internal IC web pages and put the collected data in excel format in a few hours during crucial time, this helped in saving several days of manual effort and starting the work early. Further I helped many teams in extracting data from different web pages. In one of the projects, I have integrated the web scraping code in the web-development project which reduced the human efforts by 40%.

COLLEGE PROJECT

- Developed a machine learning model to predict stock market trends using historical data, incorporating feature engineering and algorithm optimization to improve accuracy.

COURSES

- **Scaler data science course**: covered python, sql, statistics, machine learning, AI (NLP & CV), GenAI and projects for each module

EDUCATION

The National Institute of Engineering, Mysuru, India
August 2015-June 2019

Bachelors in Electronics and communication Engineering
CGPA : 8.95/10

SKILLS

- **Languages:** Python, flask, fastapi, django, HTML, CSS, C, C++, Javascript, react,java, shell scripting
- **Tools and Frameworks**: langchain, sql, mongodb, pandas , NumPy, matplotlib, seaborn, plotly, echarts, tableau, excel, git, devops, selenium, cron jobs, gcp, aws, AI, GenAI, tensorflow, pytorch, fine-tuning, RAG, LLM's, embedding models, nlp, computer vision, prompt engineering, AI agents, vectorDB, mlflow.
- **Hardware and Operating Systems:** linux, mac,windows, gpu

HONORS AND AWARDS

- Received "Innovate Everywhere" recognition for outstanding performance in cna-audit and NAA project.
- Received 'Our people deal' and "Innovate everywhere" recognition for my assessment and recommendations to the customers and for working on innovation projects
- Received "Going Above and Beyond" recognition for my contributions to the IRIS project.

LEADERSHIP AND INVOLVEMENT

- Mentored interns on building the audits comparator tool in less than a couple of months.
- Presented IRIS project in BI tech talk.