

NEERAJ SUNIL MENON

Bangalore, Karnataka, India

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TECHNICAL SKILLS

Languages: Python, Java, HTML, CSS, Shell Scripting, SQL, Cipher Query.

Technologies: Neo4j, LangChain, OpenStack, AWS: EC2, S3, Elastic Load Balancing, Elastic Block Storage, AWS Lambda, Elastic Beanstalk, Flask, FastAPI.

EDUCATION

BSc (Honors) in Cloud Computing and Big Data 2021 – 2024

REVA UNIVERSITY Bangalore, Karnataka, India

Cumulative GPA: 8.49

BSc in Programming and Data Science 2022 - Present

INDIAN INSTITUTE OF TECHNOLOGY MADRAS

Cumulative GPA: 7.16

WORK EXPERIENCE

Skillablers Technologies Pvt Ltd 2024

Development Intern

- Designed a schema for user data which is used while converting unstructured user resume data to a **Neo4j graph**.
- Defined **Object Graph Mapping Libraries** in **Python** and **Neo4j Libraries** that are used to create the structured nodes and Relationships.
- Programmed an algorithm by making use of Object Graph Mapping Libraries and the Schema – increasing the efficiency of converting key-value user information into a structured graph by more than **50%**.
- Developed a python-based recommendation system along with **LangChain agents** and '**Ollama**' to **generate recommendations** and provide a **skill gap analysis** based on user data in a **cost-efficient** manner.
- Implemented cost reduction strategies by the use of open-source Large Language Models (LLMs) and enhanced the efficiency of the result, by significantly increasing processing speed by about **60%**.
- Created multiple **RESTful endpoints** using **Fast API** that handle job recommendation generation and skill gap analysis in order to integrate the recommendation system within the Skillablers web application.
- Collaborated closely with the Project Lead, and the development team at Skillablers to develop a **user interaction** component – that displays the skills required, and the skill gap analysis of a particular job title with a click of a button.

PROJECTS

MUSIC PLAYER WEBSITE 2022

Individual Project

- Developed a website using **HTML**, **CSS** and **JavaScript** to display a list of original music.
- It features a music player to select and play any song from the list of songs using HTML and CSS along with play-pause mechanism using JavaScript.

CUSTOMER SENTIMENT ANALYSIS OF AMAZON REVIEWS 2023

Individual Project

- Created an application using **Python** and **NLP** (Natural Language Processing) to analyze a file of customer reviews for a single product on Amazon.
- Developed a program to **scrape through multiple pages** of Amazon reviews of an enlisted product using **BeautifulSoup** and a **Docker** container running a tool – '**Splash**'.
- Performed a **Sentiment Analysis** on the reviews collected using **Python** and **NLTK** (Natural Language Toolkit).
- Displayed the result of the analysis on a web application which was implemented using **Streamlit** and Python.

CHATBOT

2023

Team Member

- Developed a chatbot user interface using **HTML** and **CSS**.
- Created a chatbot using **Python**, and **OpenAI Libraries**.
- Implemented code reusability and abstraction by making use of **Flask** as a lightweight web framework.
- Defined a **custom service role** for Elastic Beanstalk to create the required services while deploying the application.
- Deployed the application on the internet using **AWS Elastic Beanstalk**.

ADDITIONAL DETAILS

Certificate in Information Security

2022 - 2023

- Completed NYUx CYB.ISP.1Information Security - Introduction to Information Security
- An online course offered by New York University through the EDX platform

TIE Young Entrepreneurs

2020 – 2021

Team Lead

- Led of a team of 5 members - created an idea and a business plan based on assembling low-cost computing devices for government institutions
- Winners of the Best Teamwork Award and the Social Impact Award

Languages: English, Hindi, Malayalam

Certifications & Training:

- NYUx CYB.ISP.1Information Security - Introduction to Information Security
- AZ-900: Microsoft Azure Fundamentals
- IIT Madras Foundational Certificate