ABHINAV NAIDU CHINTALA

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ABOUT

I am a Web and Cloud Developer with a strong foundation in backend development and cloud infrastructure. I specialize in creating scalable applications using Python, Flask, and Azure SDKs, with a focus on automating deployments and optimizing cloud resource management. My experience includes leveraging AI technologies, such as GPT-4, to build intelligent CI/CD pipelines and streamline DevOps processes. I'm committed to continuously advancing my technical expertise to deliver high-performance solutions in dynamic development environments.

WORK EXPERIENCE

Tata Consultancy Service
June 2023 - Present

System Engineer – (PythonBackend-AzureCloud Developer) — Hyderabad, TS

- **Streamlined Cloud Resource Management for Client:** Developed an automated cloud resource creation system in Azure Cloud using frontend (HTML, CSS, Vanila JavaScript, Bootstrap) and backend frameworks (Flask) in python. This significantly reduced deployment time for Telefonica Germany.
- **Cost-Effective Sandbox Management:** Implemented an automated sandbox resource cleanup activity with a Python SDK, leading to thousands of dollars saved.
- **AI-powered DevOps Assistant:** Built an AI-powered CI/CD assistant that leverages GPT-4 language model capabilities to automate docker-based web application deployment in minutes. Used OpenAI Function calling feature, called Azure API's for resource creation and deployment of web applications.
- **Migration to Centralized Data Management:** Performed a successful network data migration from Azure cloud to a centralized data storage solution.
- **Agile DevOps and CI/CD Implementation:** Developed cloud infrastructure using Agile methodology and worked within the DevOps lifecycle to create and deploy resources using CI/CD pipelines with Terraform Infrastructure as Code.

Phoenix Global
May 2022 - June 2022

Machine Learning Engineer Intern — Hyderabad, TS

- **We trained a K-Nearest Neighbors (K-NN) collaborative filtering model with a team of 4 members.** This recommender system effectively suggests movies to users based on their past preferences, leveraging K-NN to identify similar users with aligned tastes. The project utilized Python libraries like NumPy, Pandas, Matplotlib, and Scikit-learn. (This version emphasizes the effectiveness and K-NN aspect)

PROJECTS

VisaPro_V1

- Simplifies the visa application process by providing users with comprehensive guidelines and answers to all their visa-related questions in one place.
- Leverages a powerful GPT-powered backend to deliver accurate and up-to-date information on various visa types.
- Features an intuitive user interface built with web technologies HTML, CSS, and Vanila JavaScript and Flask as backend for a seamless user experience.

Computer Vision-based Crime Detection System (Published Research)

- The model is trained using a CNN-LSTM architecture and analyzes each frame in the video to predict criminal activity. This allows the system to detect **violent** crime in a video feed and triggers an alert for the authorities.
- Developed using deep learning model for real-time activity detection in video surveillance systems.
- Utilized a CNN-LSTM architecture to analyze individual video frames and predict ongoing actions.
- Leveraged the UCF-50 dataset, a large collection of YouTube videos, to train and validate the model.
- This system automates activity recognition, reducing the workload on human monitors.

Anonymous Chat App (Node.js)

- Developed a real-time chat application using Node.js, enabling anonymous users to join and participate in discussions within a single room.
- Implemented functionalities for users to connect, send and receive messages, and leave the chat room at will.
- Utilized front-end technologies like HTML, CSS, and JavaScript to deliver a user-friendly chat interface.

EDUCATION

GITAM University, Vizag, AP
April 2023

Bachelor of Technology, Computer Science (*CSE*) — GPA: 9.0/10

Sri Chaitanya Jr. College, Vizianagaram, AP
April 2019

XII, Major MPC — GPA: 8.94/10

SKILLS

Programming Languages: Python, SQL
Web Technologies: Flask, Django, HTML5, CSS3, NodeJS, React.js
Cloud & Database Technologies: Microsoft Azure, SQL Server, Mongo DB.
Machine Learning Techniques: Regression, SVM, KNN, Naïve Bayes, Decision Tree, Random Forest, Gradient Boost, Deep Learning, Large Language Model (LLM), Neural Networks, CNN, RNN, NLP.
Development Tools & Platforms: Azure DevOps, GitHub, Jira; Containers: Docker, Kubernetes.

PROFESSIONAL DEVELOPMENT

Certifications (2022):

- DP-900 Azure Data Fundamentals, AZ-900 Azure Cloud Fundamentals

Workshops:

- GenAI E0 by Google (Sep-2023): Attended workshop and completed course.

Extracurricular Activities:

- Volunteer Work: Association of Computing Machinery (ACM) Club Member, Rotaract Club Member, Computer Society of India (CSI) Member.