SUGIL S
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PROFESSIONAL SUMMARY

An Experienced AI and ML Analyst with hands-on experience in developing and deploying AI driven solutions. Proficient in programming languages, machine learning techniques, and cloud based services, with a strong foundation in computer science. Skilled in collaborating with teams to deliver innovative technological solutions. Quick learner with excellent problem-solving,communication, and leadership abilities, dedicated to achieving goals in dynamic IT environments.

WORK EXPERIENCE

AI and ML Analyst
Avasoft
Dec 2023 – March 2025

1. Engaged in hands-on AI technology projects, gaining practical experience in machine learning and AI-driven solutions.
2. Contributed to the development and deployment of innovative AI applications, leveraging skills in programming, data analysis, and cloud-based services.
3. Implemented automated AI-powered insights for data analytics using AWS Bedrock and Snowflake.
4. Developed AI-powered chat-bot and integrated them with cloud-based services for automated querying and reporting.
5. Worked on cost management solutions for cloud architectures using AWS and Azure.

TECHNICAL SKILLS

• **Programming Languages**: C, C++, Java, Python (Flask, Django),numpy, pandas

• **Web Development**: HTML, CSS, JavaScript, React.js, Full Stack Development

• **Databases**: SQL, MySQL, PostgreSQL, Vector DB , Medallion Architecture

• **APIs**: REST API, Fast API ,Flask API

• **Artificial Intelligence**: OpenAI, Bedrock, Claude sonnet, hugging face, ML algorithms,Chat GPT, chat bot,RAG,Similarity Search, Natural Language Processing (NLP),Deep Learning (DL),Neural Network(NN)

• **Cloud Services**: AWS, Azure ,Cloud Cost Tracking

• **Additional Skills**: AWS & Azure Guardrails,

PROJECTS

1. AI-Powered Learning & Evaluation System

Technology Stack: Azure OpenAI, Whisper, Python, Flask, React.js, PostgreSQL

Role:Full Stack and AI Developer
a) Developed an AI-powered application that automates the trainee review process using **LLMs** and speech recognition.
b) AI asks questions based on a **knowledge base (KB)** containing the syllabus and tracks intern activity during the review.
c) Speech-to-text processing was implemented using **Whisper AI.**
d) Validates responses and provides real-time feedback.

2.AI-Powered Cloud Architecture Automation

Technology Stack:Python, React.js, AWS, Azure, Terraform, GitHub, GitLab, Azure DevOps, Bitbucket

Role:Backend and AI Developer

a)   Automated cloud architecture creation using AI based on user inputs like project name, cloud provider (AWS, Azure, GCP), and architecture type (DataOps, Serverless, etc.).
b)   AI-generated architecture diagrams that users can validate and regenerate as needed.
c)   Code generation and deployment via SCM integration (GitHub, GitLab, Azure DevOps, Bitbucket).
d)   Implemented cost tracking dashboards to monitor cloud spending per service.

3. **Report Generator using AWS AI Models(Bedrock)**

Technology Stack: AWS Bedrock, Playwright, Vision Models, Python, Flask, Snowflake

Role:Full Stack and AI Developer

a)   Developed an AI-powered report generator that processes call transcripts, meeting documents, and cloud architectures.

b)   Used chunking techniques to process large files and generate summaries.

c)   **Vision models** analyzed business flow diagrams to generate detailed descriptions.

d)   AI provided cloud architecture analysis, including pros, cons, and future improvements.

e)   Integrated AWS billing scraping using **Playwright** to track cloud costs.

4. AI-Powered Insight Generation

Technology Stack: AWS Bedrock, Snowflake, Python, Flask, React.js

Role:Full Stack and AI Developer

a)   Developed an automated insight generation system that fetches data from Snowflake based on query generation via AWS Bedrock.

b)   Generates insights on weekly, monthly, and quarterly intervals.

c)   Connected to Snowflake DB to fetch real-time business data.

d)   Implemented automated email reports to send insights to clients.

e)   AI chatbot allows users to query specific client data and get responses in real time.

5. MQTT-Based Environment Monitoring System

Technology Stack: IoT, MQTT, Python, Flask, React.js

a)   Designed an IoT-based real-time environment monitoring system.

b)   Utilized MQTT protocol for lightweight messaging and efficient data transmission.

c)   Monitored temperature, humidity, and air quality from remote sensors.

d)   Developed a dashboard to display real-time sensor data.

6. Online Movie Ticket Booking System

Technology Stack: PHP, MySQL, HTML, CSS, JavaScript

a)   Designed a web-based movie ticket booking system for online reservations.

b)   Implemented user authentication, seat selection, and payment integration.

c)   Ensured a seamless UI/UX for booking and payment processing.

7. Education Monitoring System

Technology Stack: React.js, Flask, PostgreSQL

a)   Developed a system to monitor and analyze student performance.

b)   Designed an intuitive dashboard for tracking student activities.

EDUCATION DETAILS

Master of Computer Applications (MCA)
2021–2023
Bishop Heber College, Tiruchirappalli

Bachelor of Computer Applications (BCA)
2018–2021
Bishop Heber College, Tiruchirappalli

Higher Secondary Certificate (HSC)
2017–2018
St. James Matric Hr Sec School, Tiruchirappalli

Secondary School Leaving Certificate (SSLC)
2015–2016
Infant Jesus Matric School, Tiruchirappalli

CERTIFICATIONS

Diploma in Graphic Design (2020–2022)
Dream Zone, Tiruchirappalli

Cybersecurity (2022)
SimpliLearn - Online Learning Platform

Programming in Python (2022)
SimpliLearn - Online Learning Platform

Full Stack Web Development (2023)
Udemy - Online Learning Platform

ACHIEVEMENTS

Student Pupil Association Member
Bishop Heber College (2021–2023)
Actively participated as a dedicated member, collaborating with peers to foster a positive learning environment.

Chairman, MCA Student Association
Bishop Heber College (2022–2023)
Elected Chairman, leading various initiatives, including the [BOOTFETE-2k22] state-level symposium.

Second Semester Master's Achievement
Bishop Heber College (2022–2023)
Achieved the highest academic rank in the second semester, awarded a certificate for outstanding performance.