SHAMA C S

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https://github.com/shama2804

SUMMARY

Motivated and detail-oriented aspiring data analyst with a strong foundation in Python, machine learning (ML), and natural language processing (NLP). Skilled in data cleaning, statistical analysis, and building intelligent models to solve real-world problems. Passionate about extracting insights from complex data using analytical and programming techniques. Eager to contribute technical expertise and creative problem-solving in a dynamic, team-driven environment.

EDUCATION

JSS ACADEMY OF TECHNICAL EDUCATION, Bengaluru
2026

Bachelor of Engineering, Computer Science - 8 CGPA

VBR PU COLLEGE, Bengaluru 2020 - 2022

PCMB (State) - 89%

PROJECTS

Resume Ranking and Profiling System (Ongoing)
Developing an intelligent resume-to-job-description matching system using NLP and machine learning to assess and rank resumes based on relevance.

- Implementing similarity scoring using models such as TF-IDF, Word2Vec, and SBERT.
- Assigning a match percentage (0–100%) to evaluate resume alignment with job descriptions.
- Designing an automated profiling dashboard to streamline candidate shortlisting for recruiters.
- Aiming to reduce manual screening time, improve hiring accuracy, and minimize bias in recruitment
- Skills: OpenCV, MediaPipe, REST APIs, UI/UX Design, Scikit-learn, SBERT, Transformers, Generative AI, Pandas, NumPy, EDA, GitHub, Google Colab, Communication, Leadership

AI-Powered Attendance System Using Computer Vision (github.com/shama2804/Attendify_Vision)
Developed a basic prototype of an attendance system using Python and OpenCV to detect and recognize faces in real time.

- Implemented simple face detection using Haar cascades and basic recognition with LBPH.
- Experimented with MediaPipe for improved face tracking performance.
- Created a minimal interface to display attendance results.
- Explored concepts of automation, data privacy, and future integration possibilities.
- Skills: Python, OpenCV, MediaPipe, Computer Vision, Face Detection, LBPH, Automation, Data Privacy

PsyBot - Mental Health ChatBot (github.com/shama2804/PsyBot.git)
Developed PsyBot, a real-time mental health chatbot with a Flask backend and responsive frontend, integrated with OpenAI API for generating empathetic AI responses

- The system supports quick replies, typing indicators, and is designed for future upgrades like emotion detection and voice input.
- Skills: HTML, CSS, JavaScript, Flask, OpenAI API, Generative AI, Prompt Engineering, REST API Integration, UI/UX Design, Real-time Response Handling

SKILLS

- **Programming Languages:** Python, C, SQL, HTML, CSS, JavaScript
- **Web Development:** Flask, REST APIs, UI/UX Design, Responsive Frontend Design, JavaScript DOM Manipulation
- **Data Analysis & Visualization:** NumPy, Pandas, Matplotlib, Seaborn, Exploratory Data Analysis (EDA), Correlation Analysis, PCA, Correlation Heatmaps
- **Machine Learning & AI:** Scikit-learn, Supervised Learning, Unsupervised Learning, Semi-Supervised Learning, TF-IDF, Word2Vec, SBERT (bi-encoder, cross-encoder), Similarity Scoring, Generative AI, Transformers (HuggingFace), Sentence Transformers, Prompt Engineering, Retrieval-Augmented Generation (RAG - planning stage), Ranking Algorithm
- **Natural Language Processing:** Text Classification, Named Entity Recognition (NER), Sentence Similarity, Resume-Job Matching, Embedding Models, Tokenization, Question Answering (planned), LLM-based Justifications
- **Libraries:** TensorFlow, Scikit-Learn,Transformers
- **Computer Vision:** OpenCV (Face Detection, Haar Cascades, LBPH), MediaPipe (Face/Hand Tracking), Real-Time Video Processing, Camera Stream Processing, Attendance Tracking
- **Tools & Platforms:**Jupyter Notebook, Google Colab, Visual Studio Code (VS Code), GitHub, Postman, Canva (UI planning)
- **Soft Skills:**Team Collaboration, Public Speaking, Creative Writing, Leadership, Event Planning, Communication, Empathy, Initiative (e.g. Co-founder of LUMINA Club)

ADDITIONAL INFORMATION

- **Hobbies:**

Dance, Singing, Cooking, Reading Novels

- **Languages Known:**

English, Hindi, Kannada

- **Certifications:**

1. Python Quick Start – NASBA (2024)
2. Machine Learning A-Z: AI in Python - Udemy (2025)
3. Python (Basic) – HackerRank (2024)
4. Crash Course in Python – Google (2023)
5. SQL Essential Training – LinkedIn (2024)
6. Machine Learning - LinkedIn (2024)
7. JavaScript Essential Training - LinkedIn (2024)
8. Learning the JavaScript Language - LinkedIn (2024)

INVOLVEMENTS:

Co-Founder, LUMINA Club

Co-established a student-led club focused on enhancing soft skills and professional development for engineering students through group discussions, debates, public speaking, and introspection sessions.

Organized Events & Workshops at LUMINA Club

- Invited industry experts to share insights on emerging technologies, career paths, and skill development.
- Conducted regular sessions to improve students' communication, critical thinking, and articulation skills.