SHAMA C S

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https://github.com/shama2804

SUMMARY

Motivated and detail-oriented aspiring software engineer 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) (github.com/shama2804/Phase1-90.git)

Building an intelligent system to match candidate resumes with job descriptions using NLP and machine learning. Designed to automate shortlisting, scoring, and profiling with explainable results. Key accomplishments so far include:
- Developed a resume upload and parsing system with JD linkage using Flask and MongoDB.
- Implemented similarity scoring using TF-IDF, Word2Vec, and SBERT for resume–JD matching.
- Designed a ranking algorithm that assigns match percentages and sorts candidates accordingly.
- Created an HR dashboard to view job posts, submitted resumes, and ranked candidates with match highlights.
- Enabled CSV export and dual-PDF generation (internal JD view + public apply version).

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
- **Core Technical Skills**: Object-oriented programming (OOP), data structure design, algorithm analysis, scalable API development, software architecture patterns.
- **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.