KEVAL SING SAUD

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SUMMARY

Master of Science candidate in Computer Science with 1+ years of professional experience in Python development, automation, and machine learning. Demonstrated expertise in building scalable AI systems, leveraging LLMs, RAG frameworks, and containerized deployments. Seeking ML/DS or Python Developer roles at top tech companies.

EDUCATION

Master of Science in Computer Science, University of Mumbai — Mumbai, India
Aug 2023 — Aug 2025 (Expected)

Bachelor of Science in Computer Science, University of Mumbai — Mumbai, India
Jan 2018 — Mar 2021

TECHNICAL SKILLS

- **Programming Languages:** Python, SQL, JavaScript
- **Machine Learning / AI:** TensorFlow, PyTorch, Scikit-learn, LLMs, RAG, Diffusion Models, XAI
- **Data & Storage:** Pandas, NumPy, MongoDB, MySQL, Redis, Qdrant, HBase
- **Web & Backend:** Django, Flask, Streamlit, Gradio
- **DevOps & Tools:** Docker, Git, GitLab CI/CD, Jupyter, Anaconda
- **Visualization:** Matplotlib, Plotly, Power BI, Tableau

PROFESSIONAL EXPERIENCE

Junior Software Developer, SquareYards — Mumbai, India
May 2022 — Jun 2023

- Developed a scalable web mining application using Python, Requests, and Selenium to automate HTTP flows (CSRF tokens, login, OTP, CAPTCHA), enabling concurrent data scraping across multiple endpoints. Designed robust data pipelines and stored high-volume web data in MongoDB and PostgreSQL for structured access and analytics.
- Fine-tuned Stable Diffusion models using LoRA on custom datasets, improving image generation quality by 25% for marketing use cases.
- Built a conversational AI chatbot by integrating CSV-based agents and vector databases.
- Engineered RAG-based LLM services using LangChain, Streamlit, and Flask/Django; deployed GPT-3 powered applications for real-time search and content generation.
- Tech stack: Python, LangChain, Selenium, Streamlit, Flask, Django, MongoDB, PostgreSQL, LoRA, Stable Diffusion.

PROJECTS

Full-Stack MedicLLM: AI Assistant for Psychiatric Diseases — Apr 2024 – Present
(Click to Visit)

- Developed and Tested at **Lokmanya Tilak Municipal Medical College and Hospital (Sion Hospital)** under the mentorship the University of Mumbai CS Department.

- Engineered end-to-end web service using Django for API endpoints and Formeant for multi-agent orchestration.
- Integrated Qdrant as a vector search database, achieving 95% semantic match accuracy.
- Containerized microservices with Docker, enabling zero-downtime deployments and 3x faster scaling.
- Designed an argumentative multi-agent framework for psychiatric diagnosis, medication recommendation, and treatment planning.
- Integrated Explainable AI (XAI) modules to surface decision rationales, improving clinician trust by 40% in user studies.

Unresourced Language POS Tagger Feb 2024 – Apr 2024

(Click to Visit)

- Finetuned LLMs (Gemma2 9B, Phi4 14B) and Trained SVM/HMM/BiLSTM/mBert on Million text Corpus
- Feature engineering, hyperparameter tuning, Evalutaion, Agreement
- EDA on Unresourced Language dataset and Visualizations 92% accuracy on unresourced language
- Deployed on Streamlit
- Python, PyTorch, Scikit-learn, Pandas, NLTK, Seaborn, Matplotlib, Unsloth, Google Colab, Hugging Face, Transformers.

Tobis-Multi-LLM-Chatbot Feb 2023 – present

(Click to Visit)

- Multi-Model Support: Choose from top OpenAI and Groq models for your chat experience.
- Professional, Eye-Catching UI: Modern chat bubbles, branding, and a clean sidebar.
- Session Management: Maintains conversation context across interactions.
- Easy Model Switching: Change models instantly from the sidebar.
- Responsive Design: Works great on desktop and mobile.

Named Entity Recognition Using BI-LSTM May 2023 – Jul 2023

(Click to Visit)

- Developed a BiLSTM neural network for identifying and classifying named entities in text, with a robust preprocessing pipeline.
- Matplotlib, Seaborn for visualization
- Python, numpy, pandas, matplotlib, seaborn, scikit-learn, tensorflow.

PUBLICATIONS

MedicLLM: Comparative Study of LLM Frameworks for Psychiatric Analysis

- Presented at IEEE ICDCC-2024; co-authored with Jyotshna Dongardive and Priyanka Mahadik.
- Benchmarked MultiChain, RAG, and agent architectures to mitigate hallucinations in medical NLP.

CERTIFICATIONS

- Certificate of Completion – **MedicLLM** by Lokmanya Tilak Municipal Medical College (Sion Hospital).
- Machine Learning Workshop, IIT Bombay
- Scientific Computing (Python), FreeCodeCamp
- Data Science 101 (Python)