Chaithra J

📧 cjelkara@outlook.com | 📞 +91 7899808580 | 🔗 linkedin.com/in/chaithra-jelkara | 🔗 github.com/chai-AI9

Profile Summary

AI Engineer and aspiring researcher with hands-on experience in automation and intelligent service workflows. Currently at Bosch, where I explore agentic AI and practical uses of foundation models. Passionate about building interpretable, emotionally aware systems that drive real-world impact especially in sustainability, language understanding, and human-machine collaboration.

Experience

Bosch Global Software Technologies, Bengaluru *Dec 2022 – Present*

- Ranked as the top performer in quality within a team of 20, ensuring high client satisfaction.
- Resolved 12,000+ incidents with a data-driven support approach.
- Suggested process improvements that enhanced team performance.
- Proposed a documentation knowledge base to improve inter-department collaboration.
- Presented knowledge sessions on Neural Networks (CNNs), Generative AI and AI automation.
- Contributing to the automation tribe in the team project by exploring Agentic AI integration for intelligent service desk workflows.

Skills

- Languages: Python, SQL, Java (Basic)
- Libraries & Frameworks: pandas, NumPy, scikit-learn, transformers (HuggingFace), TextBlob, matplotlib, seaborn, Pytorch, TensorFlow.
- AI/ML Focus: Applied ML, Emotion Detection (NLP), Responsible AI, Explainable AI (SHAP),
- Tools: Git, Jupyter Notebooks, Google Colab, Streamlit, ServiceNow, VS Code

Research + Independent Projects

- **Emotion Detection from Text** (In Progress)
  Building an NLP system to classify emotional states from unstructured text. Exploring transformer-based models (BERT, DistilBERT via Hugging Face), fine-tuned on emotion-tagged datasets. Focus on emotional nuance in poetry and dialogue. Includes basic Explainable AI (SHAP).
  Tools used: Python, Hugging Face, Transformers, NLP, XAI

- **Sign Language Interpretation using AI** (Prototype in Planning)
  Designing a vision-based AI system to interpret basic sign language gestures into text. Combines computer vision and NLP to improve accessibility. Planned integration of gesture recognition with real-time text feedback.
  Tools used: OpenCV, TensorFlow (planned), NLP integration

- **Conflict Detection from Literature (GuiltNet)**
  Research project using literary dialogues (Dostoyevsky) to detect emotional conflict patterns. Built a custom NLP pipeline to model emotional states like guilt and tension in text. Explores connections between classic literature and machine understanding.
  Tools used: Python, NLP, BERT, text classification

- **Bengaluru AQI Map – Time Series Forecasting for Urban Well-being**
  Human-centered ML system to predict AQI trends using open city datasets. Applied time series forecasting models to identify pollution spikes and patterns. Built an interactive dashboard with Streamlit for accessible public use.
  Tools used: pandas, scikit-learn, Streamlit, time series, matplotlib

Education

- KLE Society's Degree College, *Bengaluru*
  Bachelor of Computer Applications; GPA: 9.2 *May 2019 – Oct 2022*

- MS Ramaiah College, *Bengaluru*
  PCMB; GPA: 8.5 *Jun 2017 – May 2019*
  (Physics, Chemistry, Mathematics, Biology)

Certifications

- **AI Engineer Master's Certification** – Simplilearn (with IBM) | April 2025
- The Complete Python Course – Udemy | 2024
- AI/Deep Learning Courses – DeepLearning.AI, Kaggle.