

SRI KAUSHIK AYALURI
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EDUCATION

Degree	Specialization	Institute	Year	CPI
B.Tech	Mechanical Engineering	SCE College	2022	7.01

WORK EXPERIENCE

- Machine Learning & Data Analytics Intern** [VELOXIVISION EDU TECH] Feb 2024-Aug 2024
 - Engineered a **transaction analysis pipeline**, processing over **50,000** transactions using **Pandas & SQL**, reducing data processing time by **40%**.
 - Developed a **K-Means clustering model** that segmented customers into **3** distinct groups, improving personalized banking product recommendations by **30%**.
 - Implemented an **anomaly detection system (Isolation Forest)** flagging **98%** of fraudulent transactions, and built an interactive **Power BI dashboard** for strategic banking decisions.
- Junior ML Engineer** [Omdena Organization] Oct 2023-Jan 2024
 - Engineered an **automated web scraping pipeline** for **Nepali news sites**, collecting and processing over **500,000+** news articles using **Selenium & BeautifulSoup**, reducing data acquisition time by **70%**.
 - Fine-tuned a **BERT-based Named Entity Recognition (NER) model**, improving accuracy from **65% to 90%** for precise detection of abusive content.
 - Deployed ML models using **MLOps (Dagshub, Docker, CI/CD)**, automating model training and deployment, reducing manual intervention by **60%**.
 - Implemented a **real-time API endpoint** for extracting and analyzing entity relationships, supporting **100+** concurrent requests with an average response time of **1.2s**.
- Data Scientist Intern** [Omdena Global Projects] May 2023-June 2023
 - Developed a high-accuracy recommendation model for **Berlin grocery stores**, achieving **90% precision**.
 - Optimized data collection, preprocessing, and web scraping of **10,000+** grocery listings.
 - Devised machine learning solutions for personalized recommendations through **NLP technology**, resulting in over **1,500** unique interactions per day and fostering sustained increases in daily usage.

PROJECTS

- Conversational AI Chatbot with Real-Time Web Scraping and Vector Retrieval** Nov 2024-Dec 2024
 - Built an **end-to-end Flask-based chatbot** integrating **LangChain** and Hugging Face's **Mistral-7B** model, improving inference speed by **40%** and handling over **1,000** user requests daily.
 - Implemented a **real-time Google Search & Selenium scraping pipeline**, increasing relevant data coverage by **60%** and reducing manual research time by **35%**.
 - Optimized **vector storage with FAISS** and **HuggingFace Bge Embeddings**, cutting retrieval latency by **30%** and achieving **90%** accuracy in relevant document retrieval.
- AI Pipeline for Image Detection, Classification, and Captioning** Sep 2024-Oct 2024
 - Constructed an advanced AI pipeline with **Google ViT** and **YOLOv5**, facilitating real-time data processing and enabling the analysis of **500+** data points per second.
 - Improved object detection speed by **50%** and classification accuracy by **60%**.
 - Deployed via **Flask**, enabling **80+** users to interact with the AI pipeline.

CERTIFICATIONS

- Data Science with AI** - Veloxivision Edu Tech 2022-2023

TECHNICAL SKILLS

- Languages:** Python, SQL
- Machine Learning & Deep Learning:** Machine Learning, Deep Learning, Natural Language Processing (NLP), Computer Vision, Recommendation Systems, Classification, Clustering, Anomaly Detection, Regression, Predictive Analytics, Transformers (BERT, Mistral-7B), LangChain, YOLOv5, ViT
- Frameworks & Libraries:** TensorFlow, PyTorch, Pandas, NumPy, SciPy, OpenCV, Selenium, BeautifulSoup, FAISS, HuggingFace Bge Embeddings
- MLOps & Tools:** Docker, Git, CI/CD, MLOps, AWS, Jupyter Notebook, Power BI, Flask
- Databases:** MySQL, PostgreSQL
- Data Analysis & Engineering:** Data Analysis, Data Preprocessing, Web Scraping, Real-Time Data Processing, Statistical Analysis, Experimentation (A/B Testing)