SRI KAUSHIK AYALURI
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EDUCATION

Degree	Specialization	Institute	Year	CPI
B.Tech	*Mechanical Engineering*	SCE College	2022	7.01
Intermediate	*Physics, Chemistry, & Mathematics*	Chaitanya College	2018	8.5
10th Grade	-	S.F.S High School	2016	8.7

WORK EXPERIENCE

- **Machine Learning & Data Analytics Intern** — *VELOXIVISION EDU TECH*   Feb 2024–Aug 2024
  - Engineered a **large-scale transaction analysis pipeline**, processing **50,000+ transactions** using **Pandas & SQL**, reducing data processing time by **40%** for **fraud detection**.
  - Developed a **K-Means clustering model** that segmented customers into **3 distinct groups**, improving personalized banking product recommendations by **30%** and supporting **risk assessment**.
  - Implemented an **AI-driven anomaly detection system** (**Isolation Forest**) that flagged **98% of fraudulent transactions**, visualized via **Power BI** for **abuse and fraud disciplines**.
  - Built an interactive **Power BI dashboard**, utilized for strategic banking decisions and to draw **insights from quantitative data**.

- **Junior ML Engineer** — *Omdena Organization*   Oct 2023–Jan 2024
  - Engineered automated **web scraping pipelines** for Nepali news using **Selenium & BeautifulSoup**, collecting **500,000+ news articles** and reducing data acquisition time by **70%** for **harmful content identification**.
  - **Fine-tuned a BERT-based NER model**, boosting accuracy from **65% to 90%**, enabling more precise detection of **abusive content in news articles** for **content moderation**.
  - Deployed **AI/ML models** using **MLOps (Dagshub, Docker, CI/CD)**, automating model training and deployment, reducing manual intervention by **60%** for **robust content moderation pipelines**.
  - Implemented a real-time **API endpoint** for extracting and analyzing entity relationships in news data, supporting **100+ concurrent requests** for **threat analysis**.

- **Data Scientist Intern** — *Omdena Global Projects*   May 2023–Jun 2023
  - Developed an **AI-driven recommendation model** for Berlin grocery stores, achieving **90% precision** by applying advanced **data science methods**.
  - Optimized **large-scale data collection**, preprocessing, and **web scraping** of **10,000+ grocery listings** using **NLP pipelines**.
  - Devised innovative **machine learning solutions** for personalized recommendations, generating **quantitative and qualitative insights** from user interactions, resulting in over **1,500 unique interactions per day**.

PROJECTS

- **AI-Powered Browser Automation Platform**   Jan 2025–Present
  - Architected a full-stack **AI-powered browser automation platform** (**FastAPI + Next.js**) with **12+ endpoints** for **large-scale data collection** and **threat analysis**.
  - Integrated **Gemini LLM, Groq Whisper, and OpenAI** for multimodal intelligence, enabling advanced **prompt engineering** and **AI safety evaluations**.

- **Conversational AI Chatbot with Real-Time Web Scraping and Vector Retrieval**   Nov 2024–Dec 2024
  - Developed an end-to-end Flask chatbot leveraging **LangChain** and **Mistral-7B LLM**, optimized for **real-time data analysis** and **harmful content detection**, improving inference speed by **40%**.
  - Utilized **FAISS** and **HuggingFace Embeddings** for efficient vector retrieval, achieving **90% retrieval accuracy** crucial for **contextual safety assessments** and reducing retrieval latency by **30%**.
- **AI Pipeline for Image Detection, Classification, and Captioning**   Sep 2024–Oct 2024
  - Constructed an **AI pipeline** using **Google ViT** and **YOLOv5** for **real-time image detection, classification, and captioning**, improving accuracy by **60%** for **visual content moderation**.
  - Deployed via Flask, enabling **real-time inference** for **80+ users** and facilitating **large-scale harmful content identification**.

CERTIFICATIONS

- **Data Science with AI** — Veloxivision Edu Tech   Oct 2022–Oct 2023
  - Covered end-to-end **ML pipelines**, **MLOps**, and **NLP (BERT, Transformers)** with **90%+ accuracy** in capstone projects, focusing on robust and deployable **AI techniques**.

TECHNICAL SKILLS

- **Programming Languages:** Python, SQL, JavaScript
- **AI/ML Frameworks & Tools:** TensorFlow, PyTorch, LangChain, Hugging Face, Docker, Git, MLOps (CI/CD, Dagshub), AWS, FastAPI, Flask, Next.js
- **Data Science Libraries & Databases:** Pandas, NumPy, SciPy, OpenCV, MySQL, PostgreSQL, FAISS, BeautifulSoup, Selenium
- **AI/ML Expertise:** NLP, Deep Learning, Computer Vision, LLM Integration, Voice AI, **Prompt Engineering**, **Fine-tuning LLMs**, **Large-scale Data Analysis**, **Abuse & Fraud Disciplines**, **Harmful Content Moderation**, **Threat Analysis**, **Data Science Methods**