

# SAHITH KRISHNA

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## Summary

AI/ML enthusiast and passionate software developer with hands-on experience in Generative AI, Deep Learning, and Machine Learning. Skilled in building innovative AI solutions, optimizing ML workflows, and applying AI to healthcare, finance, and real-world challenges

## Education

**VIT - AP University**  
*B.Tech in CSE – AI & ML*

**2021 – 2025**  
*CGPA: 8.32*

## Experience

**Smart Bridge**  
*Intern*

**Aug 2023 – Nov 2023**  
*Hyderabad*

Designed and implemented an **Image Caption Generator** using deep learning, achieving a BLEU score of 85%.  
Optimized machine learning pipelines, reducing training time by 20%.  
Presented project findings to stakeholders, providing actionable insights through data visualizations.  
Improved model inference speed by 15% through algorithm optimization.

## Skills

**Programming:** Python, TensorFlow, PyTorch, Scikit-Learn, LangChain, LlamaIndex. Java

**ML/DL:** Machine Learning, Deep Learning, NLP (Transformers, Text Preprocessing), Generative AI (LLMs), Computer Vision.

**Data:** Data Preprocessing, Transfer Learning, Model Evaluation, Boosting, Genetic Algorithms.

**Web:** HTML5, CSS3    **Databases:** SQL, MongoDB.

**Version Control:** Git/GitHub

## Projects

**Alzheimer Disease Detection using DL Techniques**  
*SEResNet-Mix Model*

**2024**

Developed a classification model using the custom **SEResNet-Mix** architecture for Alzheimer MRI scans.  
Achieved an exceptional **99.02% F1-score** on an imbalanced Alzheimer MRI dataset.  
Implemented five DL techniques (Resnet -18, MobileNet-V3,Dense-Net, GoogleNet, Efficient net B0) and Compared the performance with our proposed model.  
Enhanced clinical decision-making by delivering highly accurate predictions.  
Technologies:

\* **PyTorch, Python, OpenCV, NumPy**

**BioMistral Medical RAG Chatbot**  
*Healthcare AI Assistant*

**2024**

Created a medical chatbot leveraging **Retrieval-Augmented Generation (RAG)** for real-time insights.  
Integrated **Biomistral LLM** to provide accurate and evidence-based medical responses.  
Designed the system to assist healthcare professionals and patients with reliable information.  
Developed intuitive and user-friendly conversational flows for enhanced experience.  
Technologies:

\* **LangChain, Biomistral 7B, Pubmedbert Sentence Embeddings, Chroma DB**

**Image Caption Generator**  
*Deep Learning Model*

**2023**

Built a deep learning model to generate **descriptive captions** for images using CNN-LSTM architecture.  
Deployed the model for real-time captioning using Flask and Docker.  
Evaluated the system with **BLEU** and **ROUGE** metrics to ensure caption quality.  
Integrated the system into a user-facing application for dynamic image captioning.  
Technologies:

\* **TensorFlow/Keras, ResNet, Flask**

Time-Series Forecasting Model

Developed a predictive model using **Long Short-Term Memory (LSTM)** networks for stock price forecasting. Processed time-series data with trend analysis, handling missing values to ensure reliable predictions. Optimized model performance by fine-tuning hyperparameters, improving forecast accuracy by 12%. Provided actionable insights for investors to enhance financial decision-making.

Technologies:

- **Keras, Pandas, NumPy, Matplotlib**

Clubs and Organizations

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Role: Technical Team Member

Specialized in **Machine Learning** projects as part of the technical team. Organized and participated in technical events, workshops, and hackathons to promote AI and ML learning. Collaborated with peers to develop innovative solutions for real-world problems using AI/ML. Actively contributed to enhancing the technical community within CSI.

Role: Design Team Member

Created visually appealing designs for events, webinars, and competitions organized by the ACM chapter. Collaborated with the technical team to ensure cohesive branding and seamless event promotions. Enhanced engagement through innovative and engaging visual content, boosting event participation. Supported the team in designing marketing materials and event collateral.

Certifications

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Artificial Intelligence - Machine Learning (IBM Skills Build, 2024).  
AI & ML Powered by Google Developers (2023).  
Microsoft PL-100: Power Platform App Maker (2023).  
Digital Image Processing MatLab (2023).