Gokulnath S
Data Scientist

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About me

I am an AI enthusiast with a focus on developing advanced frameworks for biosignal analysis, genomic data processing, and customer behavior prediction. I specialize in leveraging deep learning and machine learning techniques to create innovative solutions across various domains. My passion lies in transforming complex data into actionable insights for real-world applications.

Projects

1. GenomicAI: Pathogen Detection from DNA Sequence Data   Dec 2024 – Present
   Description: Build an AI-driven tool that predicts pathogens by analyzing genomic sequences using sequence-to-sequence models

2. BioSignalAI: Advanced Framework for Post-PCR HRM Analysis   Oct 2024 – Dec 2024
   Description: Create an AI-powered end-to-end framework for analyzing biosignals like HRM, ECG, or EEG using deep learning models for feature extraction and classification.

3. Hashtag360: Context-Aware Image and Video Content Tagging   Sep 2024 – Oct 2024
   Description: Build a system that generates hashtags for both images and short videos using AI models for multimedia content understanding.

4. Bank360: Customer Behavior Prediction Platform   Aug 2024 – Sep 2024
   Description: Develop a comprehensive banking tool that predicts not just churn but also cross-sell and upsell opportunities using customer data.

5. NeuralGram: Sentiment-Driven Text Generation and E-Commerce Insights   Jul 2024 – Aug 2024
   Description: Combine N-gram modeling with transformer-based sentiment analysis to predict text and generate customer-specific recommendations.

Education

B.E, Electronics and Communication Engineering   GPA : 7.0/10.0   Aug 2020 – Jun 2024
KSR Institute for Engineering and Technology, Tiruchengode

Python and AI, Qtree Technologies, Coimbatore   Jul 2020 – Dec 2024

Skills

Languages	Python, SQL
Libraries & Tools	Pandas, Numpy, Matplotlib, Seaborn, Plotly, Scipy, Tkinter, Customtkinter,Pyautogui, Sckitlearn, TensorFlow, Keras, NLTK, Flask, beautiful soup, sqlalchemy, PowerBI, Tableau, GIT, Github
Data Wrangling	Data generation, Data Extraction, Data Cleaning, Exploratory Data Analysis, Feature Engineering, Feature selection, Data visualization.
MLSkills	DataModeling,Clustering&Classification,QuantitativeAnalysis,Regression,Predictive Modeling, StatisticalModeling,ModelValidation,Modeldeployment,CNN&RNN,LSTM,BERT,Transformers.

Portfolio

Toexplore moreonmyprojectspleasevisit: gokul-s-portfolio-i5hxqo49svmbxocyvzvggr.streamlit.app