KISHORE B

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🔗 Kishore Balaji

Coimbatore, Tamil Nadu - 641 039, India

EDUCATION

- **Amrita Vishwa Vidyapeetam**
  B.Tech CSE-AI   Coimbatore, India
  ◦ GPA: 8.19/10.00

- **Sri Chaitanya Techno School**
  Pre-University Education   Coimbatore, India
  ◦ Grade: 91.0 %

- **Sri Chaitanya Techno School**
  Secondary Education   Coimbatore, India
  ◦ Grade: 98.2 %

PROJECTS

- **FRAUD DETECTION SYSTEM**
  Tools: Python, ML Classifiers
  ◦ Developed a fraud detection system to identify suspicious transactions in financial datasets.
  ◦ Implemented machine learning classifiers (Logistic Regression) to classify transactions, achieving high accuracy in flagging potential fraud.
  ◦ Created a feature extraction pipeline, ensuring optimal data input for classifiers and improving detection precision.
  ◦ Applied anomaly detection methods to analyze transaction patterns and enhance model sensitivity to rare fraud cases.

- **WEATHER PREDICTION USING MACHINE LEARNING**
  Tools: Python, ML Regressors
  ◦ Developed a weather prediction model to forecast hourly weather conditions based on historical data.
  ◦ Implemented machine learning regressors (e.g., Linear Regression, Random Forest Regression) to predict temperature, humidity, and precipitation
  ◦ Created a time-series forecasting system, ensuring dynamic updates as new data becomes available.
  ◦ Applied cross-validation and hyperparameter tuning to improve prediction performance and analyze meteorological trends.

- **IMAGE GENERATION**
  Tools: Python, Stable Diffusion (Hugging Face Library)
  ◦ Developed an image generation system capable of generating high-quality images from textual user prompts using Stable Diffusion.
  ◦ Implemented deep learning models based on the Stable Diffusion architecture, enabling realistic and creative image generation from natural language input.
  ◦ Created a user-friendly prompt input interface, ensuring seamless generation of diverse images.
  ◦ model fine-tuning techniques to analyze and improve the image generation quality, resulting in more accurate and visually appealing outputs based on user preferences.

- **TEXT GENERATION USING MARKOV CHAINS**
  Tools: Python, Markov Chains
  ◦ Developed a text generation system that creates coherent sequences of text using Markov Chain models.
  ◦ Implemented a Markov Chain algorithm to analyze text corpora and generate probable word sequences, achieving fluent text generation.
  ◦ Created a pipeline for preprocessing input text, ensuring accurate transition probability matrices for generating meaningful sentences.

◦ Applied n-gram analysis to optimize the generation process, improving the contextual relevance of the generated text.

- **IMAGE-TO-IMAGE TRANSLATION USING CONDITIONAL GANS (CGANS)**
Tools: Python, TensorFlow
  ◦ Developed an image-to-image translation model using Conditional Generative Adversarial Networks (CGANs) to transform images from one domain to another (e.g., sketches to realistic images).
  ◦ Implemented a CGAN architecture consisting of a generator and discriminator, enabling high-quality image synthesis conditioned on input images.
  ◦ Created a data preprocessing pipeline to prepare training datasets, ensuring compatibility and enhancing model training performance.
  ◦ Applied adversarial training techniques to improve the realism of generated images, achieving high fidelity and retaining essential features from the input images.

SKILLS

- **Programming Languages:** C, Python, Java
- **Web Technologies:** HTML, CSS, Javascript
- **Database Systems:** MySQL
- **Machine Learning:** Tensorflow, ML Classifiers, ML Regressors