DINESH N T

UNDERGRAD

CONTACT INFO

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Dinesh N T

PROFILE

I am a driven and ambitious graduate with a Bachelor of Technology in Artificial Intelligence and Data Science.I am an enthusiastic about applying my academic knowledge in a practical setting and gaining hands-on experience in a dynamic workplace with strong communication and problem-solving skills.

PROJECTS

Personalized AI MED-ASSIST **PRESENT**

- Designed an intelligent healthcare chatbot utilizing NLP, IoT integration & advanced machine learning models(LSTM, CNN, Random Forest) to offer real-time health tracking and predictive health insights.
- Facilitated proactive care management by continuously monitoring vital signs, assisting in chronic disease management, and providing mental health support, all while ensuring secure data handling with HIPAA-compliant cloud services.
- Enhanced patient well-being by offering tailored health recommendations and minimizing emergency situations through early detection and prevention of health risks.

Glaucoma Detection using CNN **OCT 2023-NOV 2023**

Role as a **Data Analyst** & **DL Developer** ,

- I contributed in developing a CNN data model for glaucoma detection with a dataset of 100 labeled eye images (50 glaucoma, 50 healthy). I handled preprocessing, training with Adam optimizer and binary cross-entropy, and validated the model with fine-tuning.
- In the glaucoma disease detection project we used CNN, tools such as Python, TensorFlow/Keras, OpenCV, NumPy, Matplotlib, Scikit-learn, and Pandas .
- Challenges like variable image quality, overfitting, and interpretability were addressed using diverse datasets, robust data augmentation, and rigorous validation and fine-tuning to improve accuracy and usability in practical glaucoma detection.

Sentimental Analysis using Python **FEB 2023-MAR 2023**

Role as a **Data Analyst** & **ML Engineer** and led the presentation,

- The dataset, containing over one million tweets, includes feedback, product reviews, and user-generated content classified into positive, negative, or neutral emotions.

- Using NLTK for preprocessing, stop words and punctuation are removed, and tokenization and stemming refine the text.
- Word clouds are created to visualize the most frequent words for positive and negative sentiments.
- Challenges in sentiment analysis using Python include handling slang, sarcasm, context, multilingual data, and domain-specific vocabulary; solutions involve advanced NLP techniques, context-aware models, robust preprocessing, and libraries like NLTK along with training on diverse datasets.

Encoder & Decoder **OCT 2022-NOV 2022**

- Developed an encoder-decoder architecture using Python and its libraries to convert input words or numbers into encoded or decoded formats. This architecture takes advantage of Python's robust data transformation capabilities and employs efficient algorithms to ensure precise encoding and decoding.
- It enables seamless conversion between various data representations, making it adaptable for a wide range of applications requiring data manipulation and transformation tasks.

EDUCATION

KATHIR COLLEGE OF ENGINEERING COIMBATORE (2021-2025)

- **B.TECH-Artificial Intelligence & Data Science**
- CGPA- **7.46** (Upto 6th Semaster)

SRI GOPAL NAIDU HR.SEC.SCHOOL COIMBATORE

- **HSC** - 86% - **COMPUTER SCIENCE** (2019-21)
- **SSLC** - 77% (2018-19)

SKILLS

Languages Known : Python , SQL , C | Data Analysis | AI/ML | Deep Learning | NLP
Presentation Skills | Social Media Management | Team Adaptability | Problem Solving

CERTIFICATIONS

- Internpe | One Month Internship in AI&ML
- Data Analytics Essentials | CISCO Network Academy
- Data Visualization with Power BI | Great Learning
- Business Intelligence Fundamentals | SimpleLearn
- Network Essentials | CISCO Network Academy
- MongoDB Certificate | ICT Academy
- DevOps | GUVI | Naan Mudhalvan
- Deep Learning Onramp | MathWorks
- Python Certificate | EduPrep