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About Me

I am a Bachelor of Engineering student in Artificial Intelligence and Data Science at M S Ramaiah Institute of Technology. AI & Data Science enthusiast with experience in developing AI-driven healthcare solutions, web applications, and multi-modal data analysis. Proven hackathon winner and interested in real world problem solving with strong foundations in Python, Machine Learning, and Web Development.

Experience

IBM WatsonX 50k Grant Project Intern
IBM,
On going ,
- Conducted data preprocessing, cleaning, and annotation on legal case documents for AI model training.
- Developed a Gen AI-based text summarization and precedent extraction module for legal case analysis.
- Collaborated on building a prototype for an explainable Legal Case and Precedent Analyzer to assist Indian judiciary processes.

NLP Project intern
Kannada Ganaka Parishatthu,
On going ,
- Developing a Natural Language Processing-based PDF toolkit application for Kannada Ganaka Parishat.
- Implementing text extraction, summarization, and conversion features for Kannada language PDFs.
- Building native language resource tools to support efficient processing and manipulation of Kannada text documents.

Projects

- **Audio-video-transcription with AI:**
  Developed a Streamlit-based application to extract and transcribe audio from video files using AI models.
  Integrated AI-generated text-to-speech to replace original audio while preserving video synchronization.
  Enabled seamless audio-video merging with improved clarity, supporting multilingual transcription and speech generation.

- **AI approach for Early detection and predicting the risk of Genomic and proteomic diseases:**
  AI for Protein Interaction and Disease Risk Prediction Developed GNN and Gen AI models to predict protein interactions and assess disease risks from genomic and proteomic data, achieving 83.13% accuracy and enabling early detection through biomarker analysis.

- **Blockchain and AI driven approach for the efficient Parkinson disease episode prediction :**
  Designed an AI-powered system for early detection and continuous monitoring of Parkinson's Disease symptoms.Integrated wearable sensor data with machine learning algorithms to predict and track patient motor fluctuations and tremors.Utilized blockchain technology to securely store and manage patient health records, enhancing data privacy and accessibility for healthcare providers.

- **AI-Driven Early Diagnosis of Pediatric Autoimmune Disorders Using Retinal Imaging & Blood Biomarkers :**
  Developing an AI-powered diagnostic system integrating biomarkers, retinal imaging, and patient history for early prediction of autoimmune diseases (MS, T1D, RA, SLE). Implemented Vision Transformer (ViT) for image analysis, TabNet for biomarker prediction, and a multi-modal deep learning model. Deployed a web-based interface delivering explainable risk scores to support clinical decision-making.

- **To-Do list:**
  Developed a responsive To-Do List web application using HTML and CSS.Implemented features for task creation, editing, deletion, and status updates to manage daily activities.Added task categorization and prioritization options to enhance productivity, task organization, and user experience.

Education

10 th / SSLC Karnataka Secondary Education Examination Board – 98%	2019- 2020
12 th / PUC Department of Pre-University Education , Karnataka – 92%	2020 - 2022
M S Ramaiah Institute of Technology (*Artificial Intelligence and Data Science*) -CGPA – 9.42	2022 - 2026

Skills

Soft Skills :

Analytical Thinking, Problem-Solving, Effective Communication (technical & non-technical), Curiosity & Continuous Learning, Attention to Detail, Time Management, Team Collaboration, Adaptability to Evolving Technologies, Critical Thinking, Agile Mindset, Creativity in Solution Design, Accountability & Ownership

- **Programming & Data Tools:** Python (NumPy, Pandas, SciPy, Scikit-learn, Keras, TensorFlow, PyTorch, OpenCV, BeautifulSoup), SQL (MySQL), R , Java , C++
- **Machine Learning:** Regression, Classification, Clustering, Natural Language Processing (NLP), Large Language Models (LLM), Computer Vision, Transfer Learning, GenAI
- **Deep Learning:** Neural Networks, CNN, RNN, Transformer Models, TensorFlow, PyTorch
- **Data Visualization:** Power BI, Tableau, Matplotlib, Seaborn, Plotly
- **Web Development:** Full Stack (HTML, CSS, JavaScript, React, Node.js, Express, MongoDB)

EXTRA CURRICULAR ACTIVITIES

- **Fantom Code 2024 Hackathon - Winner, RVITM, Bengaluru**
  Parkinson's Disease Detection and Monitoring System Designed a system for early detection and monitoring of Parkinson's Disease using wearable sensors, AI algorithms, and blockchain to improve patient quality of life.

- **SEED'24 International Hackathon - 1st Prize, SEED Global Education**
  Parkinson's Disease Detection and Monitoring System Designed a system for early detection and monitoring of Parkinson's Disease using wearable sensors, AI algorithms, and blockchain to improve patient quality of life.

- **Core Member, Tensor.ai**
  Organized AI/ML hackathons, workshops, and technical events. Promoted research and project initiatives, and contributed to event planning, resource coordination, and mentoring.