Kavya T N

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Professional Experience

2024/09 — **AI Research Scientist,** Cybrisk
- Designed and developed deep learning models, incorporating insights from academic research to enhance performance.
- Conducted experiments to optimize models and collaborated with the team on implementation improvements.

2024/04 – 2024/09 — **AI/ML Intern,** Geekonomy
- Developed and implemented AI models, focusing on data preprocessing, feature engineering, and training.
- Gained practical experience with diverse machine learning techniques and frameworks.

2023/09 – 2023/10 — **ML research Intern,** NITK Surathkal
- Curated and preprocessed an audio dataset for emotion analysis in machine learning applications.
- Contributed to a project on emotion recognition for speaker identification using prosodic features.

Education

2024/07 — **BE in Artificial Intelligence and Data Science with Honours,** Bengaluru
Global Academy of Technology
CGPA 9.18

2020/06 — **12th grade,** Sri Kumarans Composite Pre-university College, Bengaluru
82.83%

2018/05 — **10th grade,** Auden Institute of Education, Bengaluru
92.8%

Skills

Machine Learning | Deep Learning | Python | Natural Language processing | Flask | Git | Docker | HTML | Tailwind CSS | Tableau

Projects

Prediction of Heart Attack possibility using Computational Algorithms
Developed computational algorithms to predict heart attack risk using machine learning techniques and comparing them.

Medical Image Generation and analysis using Diffusion Models
Designed and implemented diffusion models for medical image generation and analysis.

Accident detection model using LSTM and CNN
Developed an accident detection model using LSTM and CNN with explainable AI techniques for enhanced interpretability.

Anger and Happy Emotion Analysis for Speaker Recognition using Machine Learning Approach
Conducted emotion analysis for speaker recognition by extracting prosodic features from audio signals using machine learning.

Publications

Prediction of Early Heart Attack Possibility Using Machine Learning, IEEE 2023

Accident Detection using Images and Videos with CNN, LSTM, and Interpreting the Results using LIME & GradCAM, I2CT-2024

Certificates

- Design & Implementation of Human- Computer Interfaces (NPTEL)
- Natural Language Processing Foundation Certification (Infosys Springboard)
- Applied accelerated artificial intelligence (NPTEL)

Organizations

Kalaparva, Global Academy of Technology, Art team member

Sampoorna Swaraj Foundation, volunteer