Atheek Hebbar

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Education

B.Tech in Computer Science Engineering (AI & ML)
PES University, Bangalore **Nov 2022 - Present**

Technical Skills

- **Programming Languages:** Python, JavaScript, TypeScript, C, R
- **Web Development:** React, Node.js, Express, Flask, HTML5, CSS3
- **Databases:** MongoDB, Firebase, MySQL
- **Machine Learning:** TensorFlow, PyTorch, Scikit-learn, NumPy, Pandas, NLTK
- **Cloud Platforms:** AWS (basic), Google Cloud (basic)
- **Version Control:** Git, GitHub
- **Tools:** Unity, Docker, Vercel

Experience

Research Intern
CDSAML, PES University **Jun 2024 - Jul 2024 | Bangalore (Part-time)**

- Developed a multi-modal pipeline for Kannada speech to English text conversion
- Implemented advanced stages including audio preprocessing, transcription, translation, and grammar correction
- Developed a user-editable interface enabling flexible input modification between processing stages

Open Source ML Researcher
IEEE CS, PES University **Jul 2024 - Aug 2024 | Bangalore (Part-time)**

- Developed a hybrid GAN-VAE architecture for artistic style transfer from real images to pencil sketch
- Collaborated with a cross-functional team to optimize model performance and efficiency

Publications

- Metamorphosis of Photo Realistic Images to Pencil Sketch using a Hybrid GAN-VAE Architecture, ICTCS 2024

Projects

Cropify: A Farmer Friendly Website (**Github**)

- Developed a React and Flask-based web application for intelligent farming recommendations
- Integrated machine learning models for real-time crop analysis and disease detection
- Implemented data processing pipelines for soil and climate data interpretation
- Integrated models like LightGBM, CNN, and other ML models

MERN Stack Book Store (**Github**)

- Designed and developed a full-stack digital bookstore with React front-end and Node.js back-end
- Implemented secure user authentication and efficient database management using MongoDB
- Optimized application performance and user experience through modern web technologies

OCR and Semantic Search Application (**Github**)

- Developed and implemented OCR and Semantic Search Application for Language Detection , Text Extraction and Image Captioning.
- OCR (Optical Character Recognition): Extract text from uploaded images, detect the language of the text, and generate image captions.
- Semantic Search: Perform searches based on semantic similarity, enabling the retrieval of relevant sentences from a body of text based on the meaning rather than exact word matching.

Languages

- **English:** Fluent
- **Kannada:** Native
- **Hindi:** Proficient