






Vishnu Sathwik

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EDUCATION

International Institute Of Information Technology, Hyderabad <i>B.Tech in Computer Science (Lateral Entry)</i>	Expected : June 2027
Indian Institute Of Information Technology, Kottayam <i>B.Tech in Computer Science (Shifed to IIITH)</i>	Nov 2022 to May 2024 CGPA: 8.56

SKILLS

Languages: C/C++, Python, SQL, HTML/CSS
Libraries: Numpy, Pandas, Pytorch, Tensorflow, Keras, Transformers, Scikit-learn, NLTK, Spacy
Data Structures in C++ and Python

WORK EXPERIENCE

Summer Intern IIT Dharwad	May-June 2024
<ul style="list-style-type: none">Developed a Rag based chatbot for legal based question answering specifically for Indian law (Group Work)Scrapped Supreme court cases from web and prepared data to build a classifier.Built a multi class classifier to classify indian legal cases into Bailable/Non-Bailable, Cognizable/Non-Cognizable, Initial trial court based on judgment for Supreme court cases. (Solo work)Worked under Dr.Konjengbam Anand at IIT Dharwad	

PROJECTS

Multilingual POS Tagger for Indian Languages <i>Transformers, Pytorch, Scikit-learn,</i>	Oct. 2024
<ul style="list-style-type: none">Fine-tuned various multilingual models (mBERT, IndicBERT, MuRIL) for POS tagging across 15 Indian languages with various data sizes from each language.Found MuRIL to be the most effective, achieving 40% accuracy and F1 scores with 10,000 sentences per language.Improved the model to achieve 82% accuracy and 84% F1 score by introducing language tokens, significantly reducing training data to 1,000 sentences per language.	
Headnote Generator For Indian Judgments <i>Transformers, Tensorflow</i>	July. 2024
<ul style="list-style-type: none">Conducted a research project on automatic headnote generation for judicial judgments, using the mT5 model.Fine-tuned the mT5 model to generate headnotes, facilitating quick understanding for legal professionals.Successfully tested the model, demonstrating significant ways in summarization for judicial documents.	
Tomato Plant Disease Identification <i>TensorFlow, Keras, NumPy, Pandas, Jupyter Notebook, FastAPI</i>	Jan. 2024
<ul style="list-style-type: none">Developed a deep learning model to predict the type of disease in tomato plants based on images of the leaves.Preprocessed and augmented the dataset to enhance model generalization.Optimized data processing pipelines using TensorFlow's tf.data.Dataset API for enhanced model training efficiency.	

CERTIFICATIONS AND TECHNICAL ACHIEVEMENTS

- Participated in International Advanced Summer School on Natural Language Processing (IASNLP) 2024 conducted at IIIT Hyderabad from 21 June 2024 to 6 July 2024
- Deep Learning Specialization by Coursera. [link](#)
- Delivered a Talk on Neural Networks and Deep Learning at IIIT Kottayam with 50+ audience.
- Wrote Blogs on Training process of LLMs, 'Impact of AI on Human Jobs' and 'What Happens Inside a Neural Network'.