






Vishnu Sathwik

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EDUCATION

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| 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

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| 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

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| 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. | |
| LLaMa-2 Implementation From Scratch <i>Pytorch</i> | Nov. 2024 |
| <ul style="list-style-type: none">Implemented LLaMa-2 model's architecture for training and inference in pytorch following the exact same architecture of the original model.Implemented Rotary Position Embeddings(RoPE), Grouped Query Attention, KV Cache, RMS NormalisationIntegrated LLaMa-2-7B weights and tested the implementation on various NLP tasks to ensure everything worked as expected | |
| 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. | |

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'.