Anugunj Naman

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EDUCATION

Purdue University   West Lafayette, IN
Masters of Science in Computer Science   May 2025

Indian Institute of Information Technology   Guwahati, India
Bachelor of Technology in Computer Science   May 2022

PUBLICATIONS

- **A. Naman**, K. Deepshikha
  Indic Languages Automatic Speech Recognition using Meta-Learning Approach
  Proceedings of ICNLSP 2021, Association for Computational Linguistics.

- C. Suman, **A. Naman**, S. Saha and P. Bhattacharyya
  A Multimodal Author Profiling System for Tweets.
  IEEE Transactions on Computational Social Systems, 2021

- **A. Naman**, C. Sinha, L. Mancini
  Fixed-MAML for Few Shot Classification in Multilingual Speech Emotion Recognition
  Proceedings of MISS, 2021. Algorithms for Intelligent Systems. Springer.

EXPERIENCE

Elevance Health Technologies   Jul 2022 – Jul 2023
Software Engineer

- Designed and implemented a robust ML model training and monitoring library for production systems, specializing in fraud detection and data drift mitigation. Achieved a significant 20% boost in model performance metrics

- Developed a comprehensive ML library to ensure fairness and explainability in models. An essential internal tool for model evaluation before production deployment.

- Designed a prototype for QA chatbot on insurance documents using ChatGPT, increasing accuracy of customer understanding by 25%.

HuggingFace   Jan 2022 – Jul 2022
Open Source Engineer

- Developed code for integration of Microsoft Research's CvT: Convolution Vision Transformers for popular open source transformers library.

- Developed code for integration of Meta AI Research's LeViT: A Vision Transformer in ConvNet's Clothing for Faster Inference for popular open source transformers library.

NVIDIA   Aug 2020 – May 2021
Machine Learning Intern

- Implemented code for data augmentation for images using generative models as a part of research project improving performance metrics by 2%.

- Implemented code for speech to text models for Indic languages in low resource setting as part of research project bridging the performance close to mono linguistic models.

Projects

PATH: Pavement Assessment Tracking and Health | *Python, Tensorflow, React Native*   May 2020
- Runner Up at Grand Finale of Smart India Hackathon 2020
- Developed a deep learning model to detect road flaws like cracks and potholes using smartphone cameras.
- Built an algorithm that generates objective pavement condition scores based on captured footage.
- Built a user-friendly mobile app for engineers to collect data, view results, and generate reports – all on the go!

LiveNOW: Trending News App | *Python, React Native, Javascript, NewsAPI*   May 2021
- Designed and implemented a react native application as a part of group project for software engineering course to display trending items across services like Reddit, Twitter and News Outlets.

Glasses | *Python, Pytorch, Git, CI/CD*   June 2022
- A unified library for classification, object-detection and segmentation.
- Easy to use compared to complex library like detectron2, mmdet, etc.

Technical Skills

Languages: Python, C/C++, SQL (MySQL), Javascript
Frameworks: PyTorch, Tensorflow, NextJS
Developer Tools: Git, Docker, VS Code, Jenkins, JIRA, Bitbucket
Libraries: pandas, NumPy, matplotlib, scikit-learn, transformers