Anugunj Naman (anugunjjha@gmail.com) **Last update: June, 2023**

Contact

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Education

Purdue University, West Lafayette, US 2023–2025

- M.S. in Computer Science

Indian Institute of Information Technology, Guwahati, India 2018–2022

- B. Tech in Computer Science and Engineering, GPA: **8.9/10**

Publications

1. **A. Naman**, K. Deepshikha
   Indic Languages Automatic Speech Recognition using Meta-Learning Approach
   Proceedings of ICNLSP 2021, Association for Computational Linguistics.
2. C. Suman, **A. Naman**, S. Saha and P. Bhattacharyya
   A Multimodal Author Profiling System for Tweets.
   IEEE Transactions on Computational Social Systems, 2021
3. **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.

Work Experience

- **Carelon, Hyderabad, India** Jul 2022– Jul 2023
  Software Engineer
  - Designed and implemented the library for continuous training and monitoring of machine learning models for fraud detection by mitigating effects of data drift. Improved performance of models by 20%. The library is used in production.
  - Designed and implemented the library for fairness and explainability for machine learning models. The library is in use internally before pushing models to production.
  - Developed the prototype for the library for using LLM's like OpenAI ChatGPT and Google PaLM for OPT symptom tracker and appointment booking.

- **HuggingFace 🤗, Paris, Île-de-France, France** Dec 2021–May 2022
  Open-Source Team
  - Implemented the code for Microsoft Research's CvT: Convolution Vision Transformers for the popular open source transformers library.
  - Implemented the code for Meta AI Research's LeViT: A Vision Transformer in ConvNet's Clothing for Faster Inference for the popular open source transformers library.

- **NVIDIA, Bengaluru, India** August 2020– May 2021
  Machine Learning Intern
  - Implemented the code for research paper on automatic speech recognition and speech emotion recognition.
  - Implemented the code for research paper on generative AI for class imbalance in image based datasets.

- **IIT Patna, Bihar, India** Apr 2020–Jul 2020
  Research Intern Intern
  - Author Profiling of Tweets for Gender, Age, Region, etc.

Projects

- ***Glasses, A CV Library, 2022 (In Progress)***
  - A unified library for classification, object-detection and segmentation.
  - Easy to use compared to complex library like detectron2, mmdet, etc.
  - Similar to transformers by HuggingFace, but better.
  - https://github.com/FrancescoSaverioZuppichini/glasses-2.0
- ***Mobile Robot Navigation in Crowded-Area, 2021***
  - Reinforcement Learning based project in the final year of undergrad.
  - Used metirc learning and negative data augmentation to create a deep learning model for navigation.
- ***Smart India Hackathon, 2020***
  - Runner Up at Grand Finale. Automate the process of finding Pavement Condition Index (PCI) which was done till by Civil Engineers manually.
  - Created a prototype using Inception Model to detect irregularities on the roads to get PCI for the finale with app development in React Native Framework
- ***Trending News App, 2021***
  - Created a React Native Application in Group Project for Software Engineering Course. Used News API to display trending news with minimalist UI.

Technical Skills

- *Languages*: C/C++, Python
- *Developer Tools*: TensorFlow, PyTorch, MySQL, Git, AWS.

Society Memberships

- ***Mavericks: Machine Learning Club***
  - Co-founded the club.
  - Held paper review session for juniors.
  - Participated in SIH 2020.