

Ganga Meghanath

[linkedin.com/in/gangamegha/](https://www.linkedin.com/in/gangamegha/) | <https://gangamegha.github.io/>

EDUCATION

Purdue University (GPA 4.0/4.0)

MS, School of Electrical and Computer Engineering

Jan. 2021 – Dec 2022

West Lafayette, IN

IIT Madras (CGPA 8.79/10.0)

B.Tech Electrical Engineering, Minor in Data Science

Aug. 2015 – May 2019

Chennai, India

WORK EXPERIENCE

Data Scientist - Windows Experimentation

Feb. 2023 – Present | Causal Analysis, A/B Testing, Machine Learning, Policy Compliance

Microsoft

Redmond, WA

- Identified drivers of OneDrive usage & Tailored SCOOBE click-through-rate using Causal Discovery
- Led the DMA (Digital Markets Act) policy compliance strategy for Windows Experimentation Platform
- Conducted use behaviour analysis on Setting pages & generated label stream for Settings Recommendation

Data Scientist Intern - Windows

May. 2022 – Aug. 2022 | Machine Learning, Data Wrangling, Ranking

Microsoft

Redmond, WA

- Built a working prototype for Windows 11 Settings recommendation using inferred user intent

Graduate Research Assistant

May. 2021 – Dec. 2022 | Computational Neuroscience, Natural Language Processing

Purdue University

West Lafayette, IN

- Modeled neural population dynamics in Macaque cortex -inferred activity of both observed & unobserved neurons
- Decoded speech text from human neural recordings - Electrocorticography (ECoG) data with 3% word error rate

Data & Applied Scientist - Bing Ads

Jun. 2019 – Dec. 2020 | Computer Vision, NLP, Data Mining, Anomaly Detection, SQL

Microsoft

Bangalore, India

- Built a domain addition model for detecting Account Compromise with precision & recall of 32% and 80%
- Developed effective data-mining pipelines for sampling & labeling data that constitutes ~ 1 in 10^6 of the total ads
- Shipped models trained on in-house data (MobileNet, EfficientNet, BERT) for detecting editorial policy violations

Research Intern

May. 2018 – Jul. 2018 | Computer Vision, Image Processing

Purdue University

West Lafayette, IN

- Trained ApproxNet - a ResNet-34 model with 6 output ports to control inference time v/s accuracy trade-offs

Machine Learning Intern

May. 2017 – Jul. 2017 | Image Processing, Data Analysis

PhotoGurus

Kochi, India

- Processed ~ 3 lakh images through Rekognition & EyeEm vision API & analyzed the stored results on MongoDB

PUBLICATIONS

- [1] Ganga Meghanath, Bryan Jimenez, and Joseph G Makin. "Inferring population dynamics in macaque cortex". In: *Journal of Neural Engineering* 20.5 (2023), p. 056041.
- [2] Ran Xu et al. "ApproxNet: Content and contention-aware video object classification system for embedded clients". In: *ACM Transactions on Sensor Networks (TOSN)* 18.1 (2021), pp. 1–27.

TECHNICAL SKILLS

Languages: Python, C/C#/C++, MySQL, TensorFlow, Pytorch, MATLAB, ROS

LEADERSHIP

Data Science Talk Series | Microsoft

Dec. 2023 – Present

Graduate Teaching Assistant | Purdue University

Jan. 2021 – May. 2021

Garage Hackathon 2020/2023 | Microsoft

Jul. 2020 & Sep. 2023

Elected Class Representative | B.Tech EE, IIT Madras

Aug. 2016 – Jul. 2017

National Service Scheme, India | IIT Madras

Aug. 2015 – Jul. 2016

*All other projects and related reports can be found at <https://gangamegha.github.io/>