Anisha **Mascarenhas**

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Education

M.S. in Computer Science, University of North Carolina at Chapel Hill — Jan. 2021 - Dec. 2022

B.E. in Information Science, Ramaiah Institute of Technology, Bangalore, India — Aug. 2014 - Jun. 2018

Experience

Microsoft — *Redmond, WA, USA*

Software Engineer Intern — *May. 2022 - Aug. 2022*

- Worked on automating a tool used to manually map messy device identifiers to cleaner, consistent values for reporting.
- Used clustering to group device identifiers and suggest standardized values which increased the coverage of devices in reports used by Microsoft hardware partners by 16%.

LinkedIn — *Bangalore, India*

Software Engineer, Machine Learning — *Jul. 2018 - Nov. 2020*

- Developed high precision spam classifiers for comments on LinkedIn Feed. Built a workflow to measure impact of spam classifier deployments on user experience.
- Conducted experiments to evaluate active learning techniques for labelled data collection for spam classification.
- Evaluated the explainability of spam classifiers using algorithms like LIME and SHAP.
- Developed a performance visualization tool for distributed ML models using Apache Kafka, Samza and Rest.li.
- Built extensions for Jupyter Notebooks that allow access to LinkedIn's internal ML libraries using IPython Magics.
- Built a workflow that helps maintain deployed spam classifiers at a high precision by recommending adjustments to classifier thresholds based on online performance.

Software Development Intern — *Jun. 2017 - Sep. 2017*

- Worked on a research project for content classification using linguistic formality. Did a literature survey to identify features like cohesion characteristics. Conducted an ablation study over multiple features to identify the best performing model.
- Designed crowdsourcing data labelling tasks on Appen and implemented an end-to-end data processing pipeline.

Research Projects

Graduate Research Assistant - UNC Chapel Hill — *Aug. 2021 - Present*

- Working with Prof. Colin Raffel on a project to develop a version control system for continuous, communal and collaborative machine learning.
- Worked on a project to evaluate the factual consistency of large language models for text summarization.

Undergraduate Senior Project - Indoor Positioning using WiFi Fingerprinting — *Aug. 2017 - Jun. 2018*

- Developed a ML model to use WiFi-fingerprints to identify an agent's location in an indoor environment.
- Built a web and mobile interface to allow users to create indoor maps, collect WiFi-fingerprint data, and train models for indoor positioning.

Skills

Programming Languages	Python, Java, Scala, JavaScript
ML Libraries & Distributed Frameworks	TensorFlow, PyTorch, Scikit-Learn, NLTK, Apache Hadoop, Apache Spark
Mobile & Web Frameworks	Android, Flask, Firebase, Express, Selenium

Highlights

- Speaker for Google Developer Groups, Bangalore and the Google Developer Student Club Lead in undergrad. Conducted hands-on workshops on Android, Machine Learning and Natural Language Processing.
- Captain of the undergrad University Throwball Team. Played for 10 years as part of university and school teams.
- Awarded the Best Outgoing Student for all round distinguished performance in undergrad.