

SAMYAK MEHTA

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WORK EXPERIENCE

• Adobe Inc - Multimodal Content Lab

Bengaluru, India

Research Intern

May 2022 - Jul. 2022

- A novel end-to-end method to supplement multimodal procedural documents with more multimodal granular details.
- In a human evaluation on Amazon Mechanical Turk, 57.47% of annotators found the expanded content generated by our pipeline to be clearer, while 58.83% and 52.42% found it more textually and visually informative respectively.

TECHNICAL SKILLS

- **Programming Languages:** C, C++, Python, SQL, MATLAB, Latex, Verilog, Bash
- **Web Technologies:** HTML, CSS, Django, Node.js, Express.js, Nest.js, MongoDB, JavaScript, TypeScript
- **Tools/Framework:** Numpy, Pandas, Scikit-learn, Keras, Tensorflow, GIT
- **Operating System:** Windows, Linux * Elementary proficiency

EDUCATION

• University of California San Diego

Master of Science in Computer Science and Engineering

Sept. 2023 - June. 2025

CGPA: 4.0/4.0

- **Key Courses Taken:** Probabilistic Reason and Learning, Recommender System and Web Mining, Statistical Learning, Principles in Computer Architecture, Unsupervised Learning.

• Indian Institute of Technology (IIT), Guwahati

Bachelor of Technology in Electronics and Communication Engineering

Jul. 2019 - May. 2023

CGPA: 9.13/10, Rank: 2/103

- Minor in Computer Science and Engineering.
- **Key Courses:** Data Structures and Algorithms, Software Engineering, Introduction to Computing, Digital Logic and Computer Architecture, Computer Systems, Computer networks, Deep Learning, Probability and Random Processes.

* In progress

THESIS AND PROJECTS

• Prompt Response Logging System with Detailed Metrics

Personal

March. 2024 - April. 2024

🔗 t.ly/fJqv4

- Implemented a **NestJS** proxy layer to forward requests to OpenAI, logging responses to ClickHouse database with detailed metrics. Included APIs for querying, filtering requests, and fetching aggregate metrics.
- Developed a dashboard using **Streamlit** to showcase sample requests, token counts, and request graphs over time.

• Node.js and Express.js Projects

Personal

January. 2024 - March. 2024

🔗 t.ly/QHkL0

- Implemented a Task Manager application using Node.js and Express.js, allowing users to organize tasks efficiently.
- Developed a RESTful Store API utilizing Node.js and Express.js, enabling seamless interaction with store inventory data.
- Created a Job API to facilitate job listings and applications, enhancing job search functionalities.

• WebBlog

Personal

July. 2021 - September. 2021

🔗 git.io/JCvUN

- A web development project, developed using **Django framework** for blogging purpose.
- The web-app has complete **user authentication** and it has functionalities like creating, reading, editing, deleting, liking or unliking blogs. The blogs are also categorized in case the user wants to read blogs of a specific category.

• Optical Character Recognition of Textual Documents

B.Tech Project under Dr. Anirban Dasgupta

August. 2022 - May. 2023

📄 Thesis

- This project involves developing a pipeline for input document line segmentation, handwritten/print line classification, OCR processing for each line, and post-processing the OCR output using a novel NLP technique.
- Our model produced a **WER of just 0.045 and CER of just 0.005** on OSCAR dataset, providing better accuracy than models like Textblob, SymSpell, Seq2SeqLM BART etc.

ACHIEVEMENT

- **Patent:** System and Methods for expanding sparse multimodal documents, Patent filed June 2023, Patent pending.
- **Publication:** A Novel Pipeline for Improving Optical Character Recognition through Post-processing Using Natural Language Processing. Aishik Rakshit, Samyak Mehta, Anirban Dasgupta. *Accepted to IEEE GCON 2023.*
- **IMS 2021:** Received the prestigious Institute Merit Scholarship for the year 2021.
- **Department Rank:** Department **Rank 2** in Electronic and Communication Engineering department.
- **Joint Entrance Examination Main:** Secured **99.79 percentile** among 1 million candidates, in 2019.
- **Joint Entrance Examination Advanced:** Secured **AIR 1808** among 0.17 million candidates, in 2019.

EXTRACURRICULAR

- **Teaching Assistant**, for the course Introduction to Python during SP24.
- **Teaching Assistant**, for the course Data Science in Practice during WI24.
- **Organizer**, PR and Branding, Techniche, IIT Guwahati, 2019-2020.
- **Team Member**, Mess Management Committee, Brahmputra Hostel, IIT Guwahati, 2019 - 2020.
- Part of **Electronics Club**, IIT Guwahati, 2020 while working on the "Bunny Hammer Game" project.