TAZBIA FATIMA

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Education

Dual Master of Science in Journalism and Computer Science, Columbia University, New York, NY

Expected May 2023

Graduate School of Journalism, The Fu Foundation School of Engineering and Applied Science

- Journalism Courses: Computational Journalism; Audio and Video Production; Produced multiple stories for The Uptowner; Columbia News Service; two podcast episodes for Onomatopoeia, a podcast of Columbia Journalism School; four video stories for Video Journalism class.
- Computer Science Courses: Natural Language Processing, Climate analysis, Large-scale Network Analysis, Advanced Database Systems, User Interface engineering and Data visualization.
- Awards: Honors for Reporting; Geffen Scholarship, Columbia Journalism School

Bachelor of Technology in Information Technology, Jawaharlal Nehru Technological University, Hyderabad

2015-2019

- Courses: Java, C++ and Python Programming, Databases, Cloud Infrastructure, Front-end Technologies, Advanced English and Communication lab, Creative Writing, Magazine Production.
- Awards: summa cum laude

Professional Experience

Computational Research Assistant, Tow Center for Digital Journalism, New York, NY

Mar 2022 - Jun 2022

- Implemented system design and code to extract the metadata of news articles on news aggregator websites with the aim of creating a network of people involved in these pink slime news organizations.
- Executed ethical scrapers and crawlers using Python, MySQL Databases and AWS cloud.

Software Engineer, NCR Corporation, Hyderabad, India

May 2019 - Jun 2021

- Led infrastructure migration to Azure could as Subject Matter Expert(SME) for the Aloha Online Ordering product servicing leading food chains like Nando's and Buffalo Wild Wings across APAC region.
- Managed four interns in infrastructure scaling on-demand to meet ordering traffic during Super Bowl matches.
- Promoted to Team Lead for Containerization R&D and Software Deployments.

Software Engineering Intern, Apple Inc., Hyderabad, India

Dec 2018 - Apr 2019

- Implemented the project Weigh-To-Go, a calorie-tracking web application. Used JavaScript, React and NodeJS to build front-end features; Java programming for data collection; MySQL for database building and maintenance.
- Selected to be a part of All-India 30-intern only Apple Inc. cohort.

Select Projects

Ongoing Master's Project:

- A 6000-word investigative story on the migration of Indians to the US and their routes and trends. Reporting bolstered by data analysis
 of YouTube videos and adverts on the subject.
- Built a data acquisition and topic-clustering pipeline for the analysis in Python. Engineering it to make a reusable tool.

Rise or Fall: Visualizing the popularity of Music Artists:

- Built an Interactive Data Visualization that shows career trends of musicians by popularity on Spotify. Shows the lifetime of each song, to give users micro-level information.
- Engineered using JavaScript and d3.js Embedded with Spotify to play a popular track of each artist.

Causal Analysis of climate indicators on extreme flooding in Pakistan in 2022:

- Built Machine Learning algorithms on correlation analysis in Python, to identify the weather metrics used to predict future susceptibilities.
- Provides reporting leads to investigate the depletion of snowmelt and surface soil health of the region.

<u>Tackling Misinformation: Studying COVID-19 Narrative by Indian News Media:</u>

- Data Analysis to understand the stance of Covid-19 specific news articles by Indian Media with a hypothesis to identify the fear-mongering narrative by news outlets.
- Implemented Natural Language Processing pipeline in Python. Data collected using scraping and request framework via News APIs.

Skills

Journalism: Reporting, Investigative and OSINT Technologies, Audio-Video Production, Narrative Writing

Programming Languages and Databases: Python, HTML, JavaScript, SQL, Firebase Database, Neo4j, CSS, jQuery, D3

Cloud Platforms: Microsoft Azure Cloud, Google Cloud Platform, AWS, Kubernetes, Docker, Go-language

Machine Learning: Natural Language Processing, Computer Vision, Social Network Analysis

Languages: Urdu(Native), English(Proficient), Arabic(Elementary), Telugu(Elementary), Hindi(Elementary)