Anushka Pandey

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EDUCATION

Tufts University, MA - *Master of Science in Data Analytics| GPA: 3.89/4.0*	Sep 2023- May 2025
Manipal Institute of Technology, India - *B.Tech in Electrical and Electronics Engineering*	Aug 2018 - Aug 2022

SKILLS AND QUALIFICATIONS

Programming Languages: Python, SQL, JAVA
Libraries/Frameworks: PowerBi, Tableau, Pandas, Excel, NumPy, Matplotlib, Scikit-Learn

EXPERIENCE

Graduate Research Assistant   **Jan 2024 - Present**
Data Analytics Department, Tufts University, MA, USA
- Enhancing accessibility of *D'Arcy Thompson's Glossary of Greek Birds* by developing automated tagging and NLP pipelines to process XML data using Oxygen Editor and Python

Freelance Media Strategist   **Aug 2024 – Present**
Helping businesses grow their digital presence through social media strategies, creative content, and audience engagement
- Managed multiple clients' social media presence on LinkedIn, Instagram, Facebook to grow brand awareness and boost engagement
- Conducted market research scheduled and edited content to align with personal brand strategy
- Analysed performance metrics to refine campaigns and increase engagement, leveraging trends and audience behaviour to drive growth

AI/ML intern   **Jun 2024 - Aug 2024**
A5g Networks
A5G Networks is a start-up that specializes in advanced network solutions that optimize telecom performance to enable a seamless 4G/5G service experience in distributed and heterogeneous environments.
- Developed and maintained the Mobility Dashboard using Grafana, resulting in a 25% improvement in monitoring efficiency for telecom networks by utilizing Prometheus query language (PromQL) and Python scripting for automated data collection and pre-processing.
- Collaborated with the engineering team to analyze and report on network performance, leading to a 15% reduction in troubleshooting time and enhancing overall network reliability and performance

Project Engineer   **Jul 2022 - Jul 2023**
Wipro Technologies, Bangalore, India
A leading global information technology, consulting, and business process services company with annual revenue of over $8B
- Collaborated extensively with a diverse team of 10+ members on the design and development of an NNA Application, for Nokia Siemens Networks which boosted FCAPS management efficiency and operational performance in FY 2022.
- Utilized Java in an agile framework to fast-track development, enabling quick demo delivery and accelerating client feedback integration

Undergraduate Research Assistant   **Jan 2022- Jul 2022**
 Information and Communication Technology Department, Manipal University, India
 A premier institution of engineering and technology in India, consistently ranked among the top technical institutions in India
- Developed an end-to-end Twitter sentiment analysis pipeline on e-health trends, which helped refine e-health resources through insights into competitor sentiments and user preferences.
- Assessed the feasibility of utilizing Vader and Textblob for data tagging, conducting a comparative analysis to determine their efficacy in processing and categorizing social media data.

Remote Data Science Intern and Business Intelligence Intern   **Mar 2022**
AINE AI, India
An innovative tech start-up specializing AI and data science solutions, driving digital transformation for businesses
- Utilized Power BI software to analyze KPI for the client and competitors, identifying gaps and delivering actionable insights through client-ready presentations

PROJECTS

CRWA Charles River Discharge Monitoring Pipeline   **Oct 2024- Present**
- Developed an interactive Power BI dashboard for the Charles River Watershed Association (CRWA) to monitor and visualize combined sewer overflow (CSO) events, storm data, and environmental justice (EJ) block impacts across ten river sites, utilizing Excel and Python for data pre-processing, integration, and trend analysis.

Relevance Analysis of Reddit Threads in US Elections 2024 Discourse [In Progress]   **Oct 2024 – Present**
- Built a tool to analyze Reddit threads related to the 2024 US Elections using natural language processing (NLP) techniques, including BERTopic, LDA, and sentiment analysis with AWS Comprehend API, achieving up to 90% accuracy in leader sentiment prediction.
- Preprocessed and analyzed large-scale Reddit data (2021–2024) using Python), delivering actionable insights on voter sentiment, leader mentions, and topic trends through impactful visualizations.

Analyzing the Prevalence of Minority Ownership in Women's Businesses in Boston [Repository]   **Oct 2023 – Dec 2023**
- Efficiently streamlined data on 195 women-owned businesses in Boston, to derive socioeconomic insights and guide the policymakers for better resource allocation. (Using R)

Aspect Based Sentiment Analysis [Repository]   **Jan 2022- Jul 2022**
- Developed an end-to-end Twitter sentiment analysis pipeline to conduct e-health data analysis using Twitter hashtags to visualize key insights, trends, and public sentiment.

ACADEMIC ACHIEVEMENTS

- Recipient of 10% scholarship from Tufts University in the year 2023-24 for past academic and professional excellence.
- Awarded the Schneider Sustainability championship for the year 2021 for visionary initiatives that made a significant impact on reducing carbon footprints and promoting sustainable living.