Mishal Mann Nair

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About Me

Enthusiastic and results-driven Computer Science undergraduate specializing in Data Science, with a strong foundation in data visualization, data mining, and data engineering. Skilled in Python and SQL, with hands-on experience using statistical methods and data storytelling techniques. I'm confident in my ability to quickly learn new tools and frameworks. Currently seeking an internship to apply analytical and programming skills in real-world business or research contexts.

Skills

- **Programming Languages:** Python, R, SQL, C++, Java, MATLAB, JavaScript
- **Data & Tools:** Jupyter, Git, Power BI, MS Excel, MS Word, MS PowerPoint, Canva, Figma
- **Databases:** Microsoft SQL Server, MySQL, PostgreSQL (basic)
- **Libraries & Frameworks:** NumPy, pandas, scikit-learn, TensorFlow, matplotlib, seaborn, BeautifulSoup, Scrapy, React
- **Soft Skills:** Critical thinking, Communication, Teamwork, Time management, Attention to detail, Empathy
- **Languages Spoken:** English, Malayalam, Hindi, Dhivehi

Education

Multimedia University, BSc Computer Science Specialization in Data Science   **July 2023 – July 2026**
- **GPA**: 3.97/4.0
- **Coursework**: Object-Oriented Programming, Data Structures, Objected-Oriented Analysis, Discrete Structures & Probability

IIT Madras X Intellipaat, Advanced Certification Data Science & Artificial Intelligence   **August 2022 – July 2023**
- **Coursework**: OOP Basics, MSSQL, Machine Learning using Neural Networks, XGBoost, ARIMA/SARMIAX Time Series, Business Intelligence, Git Basics

Projects

Walmart Sales Forecasting Using SARIMAX and ARIMA
A time series analysis project aimed at forecasting Walmart store sales
- Conducted stationarity checks using the ADF test and visualized seasonality with decomposition plots.
- Utilized ACF/PACF plots to determine ARIMA order parameters; applied SARIMAX for incorporating seasonal effects.
- Evaluated model accuracy using Root Mean Squared Error and compared performance between ARIMA and SARIMAX.
- Created interactive visualizations to display actual vs. predicted sales trends over time.
- **Tools**: Python, pandas, numpy, statsmodels, seaborn, scikit-learn

Telegram News Scraper Bot with Sentiment Analysis
A real-time Telegram bot that scrapes news and provides sentiment-based summaries
- Built a Telegram bot to retrieve and deliver news articles based on user-provided keywords.
- Implemented sentiment analysis using NLTK's VADER to classify article tone (positive, negative, neutral).
- Automated web scraping using BeautifulSoup and requests, and handled rate-limiting and keyword filtering.
- Deployed locally with modular code design, enabling future API integrations or cloud deployment.
- **Tools**: Python, BeautifulSoup, requests, NLTK, python-telegram-bot

Wordle Strategy Analysis and Solver
A data-driven Wordle solver designed to minimize average guesses per word
- Analyzed 2,000+ Wordle game results to identify optimal first-guess words based on letter frequency and entropy.
- Built an algorithm that simulates and filters possible word matches, reducing average guess count to 3.427.
- **Tools**: Python, numpy

References

Zainuddin Bin Johari - Lecturer at Multimedia University
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