AASHISH NAIR

Hyattsville, MD 20781 | (814) 880-1838 | aashishnair8925@gmail.com

https://www.linkedin.com/in/aashish-nair/ | https://github.com/anair123 | https://medium.com/@aashishnair

WORK EXPERIENCE

Data Scientist August 2021 - Current

Optimal Solutions Group, LLC | College Park, MD

- Reduced market research time for businesses by 80% by leveraging machine learning and natural language processing to identify and recommend potential contractors
- Utilized Python to collect ~2 TB of structured and unstructured data from federal agencies using APIs and web scraping tools
- Designed and built ETL pipelines that extracted and processed data from 20+ sources and then stored them in databases in the cloud
- Built chatbots powered by large language models using the Langchain framework to reduce the time needed for the internal research team to conduct information retrieval by 70%
- Enabled clients to achieve their business targets by generating analytic reports and deploying Power BI
 dashboards to evaluate their performance and identify pain points

Data Science Intern

November 2020 – May 2021

DailyBot | Washington, DC

- Utilized the TensorFlow framework and natural language processing libraries to build a chatbot that automated manual tasks for the internal teams
- Facilitated the integration of the chatbot microservice into the company's existing backend

Data Visualization Intern

May 2020 – August 2020

BroadStreet | Washington, DC

- Led a team of up to 5 people that created visualizations for Covid-19 data from the Midwest
- Utilized Tableau to create dashboards and capture Covid-19 spread for different demographics
- Independently collected and cleaned data on COVID-19 cases and deaths in the Midwest with Python

EDUCATION

Master of Science, Data Science

May 2021

George Washington University | Washington DC

Bachelor of Science, Industrial Engineering

Pennsylvania State University | University Park

TECHNICAL SKILLS

May 2019

- Languages: Python, R, SQL, Powershell, Bash
- Database Management: PostgreSQL, MySQL, SQL Server, Amazon Redshift, Snowflake
- Machine Learning: Classification, Regression, Clustering, Natural Language Processing
- Data Visualization: Power BI, Tableau, Plotly, Matplotlib, Seaborn
- Data Engineering: Apache Spark, Apache Airflow, Mage
- Other: ETL, A/B testing, Web Scraping, Time series analysis, Hypothesis testing, API

PROJECTS

Building a Custom Q&A Chatbot on a CPU | GitHub | Medium Article

October 2023

Trained a chatbot powered by the Llama2 model with research papers that can run offline on a CPU

Detecting Faulty Water Pumps in Tanzania | <u>Github</u> | <u>Medium Article</u>

June 2023

Developed and deployed a web application powered by an XGBoost model that predicts the functionality of water pumps in Tanzania

Analyzing Flight in U.S. Airports | Github | Medium Article

April 2023

Built a data pipeline using AWS and a dashboard with Power BI to examine U.S. flights and determine how the pandemic affected flight traffic in various regions, airports, and airlines.

CERTIFICATIONS

AWS Certified Cloud Practitioner

December 2022

• Offered by Amazon, which proves proficiency in cloud principles and AWS technologies