AASHISH NAIR

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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 ~500GB 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   May 2019
Pennsylvania State University | University Park

TECHNICAL SKILLS

- **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
- **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 | Github | Medium Article   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