Diksha Aurobindo
(332)-260-1015 | da2993@alum.barnard.edu

EDUCATION

Barnard College of Columbia University, **New York, NY** *Expected May 2025*
Majoring in Computer Science - Dean's List
Coursework: Artificial Intelligence, Computer Systems, Natural Language Processing, Data Structures & Algorithms, Discrete Mathematics, Computational Linear Algebra, Database Management, Advanced Programming, Probability and Statistics.

PROFESSIONAL SKILLS

Programming Languages	Python, Java, R, Matlab, SQL
Data Visualization	Pandas, Numpy, Scikit Learn, Seaborn, Plotly, Cufflinks, MS Excel
Big Data	Hadoop, Map Reduce, Kafka, Hive, Spark Mlib, Apache Airflow
Web Technologies	HTML, CSS, JavaScript, ReactJS, jQuery
Data Engineering.	ETL Pipelines, Data Modeling, Data Wrangling
Cloud Technologies	GCP, AWS (Certified Cloud Practitioner)

WORK EXPERIENCE

CVS Health *May 2024 - Aug 2024*
Analytics Engineer Intern
- Built high-throughput ETL pipelines that processed 500GB+ of API data daily, slashing pipeline failures by 30% and doubling analytics speed with Apache Beam & GCP Dataflow
- Automated end-to-end data workflows using PySpark & Apache Airflow, optimizing data integration efficiency by 30% and ensuring seamless orchestration across distributed systems.
- Implemented CI/CD pipelines for ETL deployment, integrating Airflow DAGs, containerized workflows (Docker, Kubernetes), and automated testing, reducing deployment time by 40% and ensuring robust data pipeline reliability.
- Led a large-scale, cross-cloud migration, transferring millions of records from Azure Snowflake to GCP, reducing latency by 30% while guaranteeing 100% data consistency across platforms.

Smart Twigs *May 2023 - Aug 2023*
Data Science Intern
- Developed a condition-based predictive maintenance model that utilizes historical sensor data collected from CNC Milling machines to monitor the condition of various components of the machine in real-time.
- Predicted the time for maintenance or servicing by analyzing patterns and anomalies in sensor data.
- Achieved a 95% accuracy in predictive maintenance requirements, leading to a 43% reduction in unscheduled downtime and a 26% decrease in maintenance costs.

Segway *July 2022 - Aug 2022*
Technical Intern
- Engineered a vehicle-tracking and fleet management system that integrated GPS data, sensor inputs, and cloud-based analytics to monitor the location, performance, and health of their self-balancing transporters.
- Streamlined operational efficiency, resulting in a 23% reduction in maintenance response times.
- Improved to increased fleet utilization and customer satisfaction by analyzing data with Pandas and Cufflinks, leading to better resource allocation and service quality

PROJECTS

Data Analysis on National Health and Nutrition Examination Survey (NHANES): Self
- Conducted exploratory data analysis on the NHANES dataset, analyzing patient demographics and medical history data to identify trends in disease prevalence and treatment outcomes.
- Explored correlations between demographic factors and diseases such as diabetes, hypertension, and cardiovascular conditions: helped understand the prevalence of these diseases among different age groups, genders, and ethnicities, offering insights that can inform targeted healthcare interventions.
- Provided crucial insights such as a 15% higher prevalence of diabetes among 55 and above age group and a 20% increased risk of hypertension among Asian and European communities.

Inventory Management for Retail Chain: Columbia Data Science Hackathon
- Combined sales, procurement, and inventory data to design a comprehensive database schema.
- Developed SQL queries to identify stock trends, fast-moving items, and potential stockouts.
- This led to a 15% decrease in excess inventory, enhancing cash flow, and a 20% decrease in stockouts, resulting in improved customer satisfaction and operational efficiency.

EXTRACURRICULARS

NCAA Division 1 Athlete, Indian National Squash Champion, Represented India at the Asian Championship twice.