

# Ananya Srinath Achar

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## PROFESSIONAL EXPERIENCE

### **Data Engineer Intern | Nuvento Inc | United States**

Feb'25 – Present

- Refactored existing data models, reducing query execution time by 40% and improving scalability to handle 2x the previous data volume, ensuring efficient reporting and analytics
- Rebuilt ETL pipelines, cutting data processing latency by 30% and increasing throughput to process millions of records daily, ensuring seamless data ingestion, transformation, and loading

### **Data Analyst II | Cognizant | India**

Mar'22 – Jul'23

- Streamlined data refresh processes by developing Power Automate flows to automate manual tasks and implementing monitoring for trigger failures, while utilizing Power Apps to optimize business workflows
- Leveraged Pandas, Matplotlib, and Seaborn to clean, transform, and visualize large datasets, enabling in-depth trend analysis and actionable insights that enhanced business decision-making
- Worked with Azure Data Factory (ADF) and Databricks Lakehouse architecture to streamline data ingestion and transformation, optimizing ETL workflows for scalable and efficient data processing
- Proactively identified bottlenecks in data pipelines and reporting processes, implementing automation and workflow optimizations that reduced data processing time by 30%
- Trained and mentored 3 interns in an Agile environment on cost cataloging, ODBC issues, and problem-solving

### **Data Analyst I | Cognizant | India**

Jul'21 – Mar'22

- Automated Power BI dashboards replacing manual Excel reports, cutting down reporting time by 40%
- Optimized complex SQL queries to extract, transform, and analyze large datasets, improving reporting efficiency and enabling real-time monitoring of Power BI resource consumption
- Conducted in-depth root cause analysis on Power BI Premium Capacity and Gateway connection failures using ticketing system ServiceNow, reducing recurring issues by 30% and improving system uptime

### **Data Analyst Intern | Unique Tech Designs | India**

Aug'20 – Apr'21

- Analyzed website traffic and user behavior using Google Analytics, tracking key performance indicators (KPIs) to identify trends and optimize marketing strategies, leading to a 20% improvement in customer engagement
- Utilized Pivot Tables, VLOOKUP, and advanced Excel functions to process and visualize large datasets, streamlining reporting processes and enabling data-driven decision-making for business operations

## EDUCATION

**The University of Texas at Dallas, United States** | MS, Information Technology and Management

Aug'23 – May'25

**JSS Academy of Technical Education, India** | BE, Electronics and Communication

Aug'17 – Aug'21

## TECHNICAL SKILLS

**Programming languages:** Python, SQL, R

**Libraries:** Pandas, NumPy, Matplotlib, Seaborn, Scikit-learn, ggplot2

**Tools and Platforms:** Microsoft Power BI, Tableau, Advanced Excel, Snowflake, Amazon Web Services (AWS), PySpark, Azure, BigQuery, Redshift, PowerApps, Power Automate, SSRS, SAS, ServiceNow, Jira, Git

**Certifications:** Microsoft Azure Data Fundamentals DP900, Google Analytics (Coursera)

## PROJECTS

### **Multi-Class Prediction of Cirrhosis Outcomes**

- Developed and trained a multi-class classification model on 10K liver cirrhosis patient records to predict their outcomes, achieved a low log loss, logged the results to a Databricks server using MLflow

### **Real-time Stock Market Data using Kafka**

- Designed and implemented a real-time stock market data pipeline using Kafka on AWS EC2, where a Python-based producer ingested simulated market data and streamed it to a consumer for further processing
- Built an analytics pipeline on AWS, storing Kafka-streamed stock data in Amazon S3, cataloging it with AWS Glue, and querying insights using Amazon Athena, enabling efficient real-time data analysis

## LEADERSHIP AND ACHIEVEMENTS

- **Publication**, Ananya Srinath. "Review Paper on COVID-19 Patient Isolation Detector." Springer, 1415, [LINK](#)
- **Student Manager & Officer (Leadership Council)**, Student Union, The University of Texas at Dallas