SRINIDHI JAYAPRAKASH

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EDUCATION

Columbia University in the City of New York Aug. 2022 - May 2026
B.S. *Computer Science*, *Data Science* *New York*, *NY*

TECHNICAL SKILLS

- **Programming Languages**: Python, R, SQL, Java, C, HTML/CSS, JavaScript/TypeScript
- **Data Science and ML**: PyTorch, TensorFlow, Scikit-Learn, Jupyter Notebook, Pandas, Matplotlib, Statistical Modeling, MLP, Deep Learning, Neural Networks, Data visualization tools (Tableau, Jupyter, Power BI)
- **Big Data Technologies**: Apache Spark, Hadoop, Hive, MongoDB, BigQuery
- **Data Engineering Tools**: ELT/ETL processes, Apache NiFi, Kafka Data Streaming, DBT, Google Cloud Platform, CI/CD(Jenkins), Python scripting, Git, Database management, Data warehousing.
- **Tools:** Microsoft data tools (e.g., Azure Data Factory, SQL Server), Databricks, MS Office Suite, and Oracle.

PROFESSIONAL EXPERIENCE

Verizon | *AI&D Data Engineering Intern* May 2024 - Sep. 2024

- Streamlined migration of xLPT Data(used to measure counters/KPIs from network components) from traditional legacy web service reports to AWS S3 ingestion pipelines in order to reduce latency in the availability of the xLPT, and improve data quality.
- Completed migration of 3 xLPT datasets: Created Apache NiFi flows to route S3 files to the Google Cloud Platform, configured and executed Jenkins pipeline to create table schemas in BigQuery for the data feeds, setup Data Ingestion Framework, configured BQ Load parameters, inserted data into BQ tables.

Ultrasound Elasticity Imaging Lab - Columbia University | *Machine Learning Research Intern* Jan. 2024 - Present

- Developed a Deep Learning pipeline in Python using PyTorch for Arrhythmia classification, integrated an MLP model with latent space embeddings and triplet loss for improved feature representation.
- Conducted data preprocessing, implemented techniques such as gradient clipping and early stopping to enhance model performance and prevent overfitting.

University of North Carolina Wilmington | *AI Research Intern* May 2021 - Dec. 2023

- Worked in UNCW Math and Science Computer Lab in the field of Statistical Data Mining and trained/tuned machine learning models using Python to predict Atrial Fibrillation in medical patients, through the R-R Interval patterns in their Electrocardiogram data.
- Presented research in the UNCW Research Symposium and received funding; worked towards incorporating algorithm into wristwatch device for medical patients. (https://srinidhi.page.link/research-paper)

NASA | *Machine Learning Engineer Intern* May 2022 - Sep. 2022

- Collaborated with NASA scientists to analyze space weather predictions with improved accuracy using machine learning (CNN Neural Networks) in Python.
- Executed data engineering tasks by collecting and organizing space flight images, categorizing and sorting data based on solar flare event types, and utilizing features like spacecraft distance from the sun to effectively classify the image data into relevant categories.
- Presented research in the Annual NASA Research Symposium.