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*

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).
- **User Experience Design:** Wireframing and prototyping using digital design tools such as Sketch, Figma, UIzard, and Marvel.
- **Product Management & Strategy:** Skilled in Product Roadmapping, UX Design, Financial Modeling, User Flow Diagramming, Market Research, Competitive Analysis, and Agile & Scrum Methodologies.
- **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, Oracle, MS Office Suite.

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 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 Laboratory - Columbia University, *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.

DeepGeniusAI, *Product Management Intern* May 2023 - Sep. 2023

- Created wireframe & user flow diagramming of digital product DigiTox- An app that calculates a user's discipline with their use of digital devices, and uses an algorithm to produce a Digital Detox Score that is based on the user's screen time on different categories such as entertainment, browser, media, and work-related use.
- Collaborated with engineers, designers, and data scientists to align product features with user needs/business objectives
- Constructed a comprehensive business and financial model, projecting potential revenue streams and market growth, and played a key role in the product's go-to-market strategy.

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

- Collaborated with NASA scientists to analyze space weather predictions with better accuracy using machine learning (CNN Neural Networks) in Python.
- Performed data engineering tasks including collecting space flight images, sorting data by types of solar flare events, and using features such as distance of the spacecraft from the sun to organize the image data in relevant categories.