Prathik Reddy SannapuReddy

psannapu@syr.edu | (680)356 6586 | LinkedIn

EDUCATION

Syracuse University Expected: May 2025
Master of Science in Computer Science **GPA: 3.2/4**
Relevant Coursework: Data Mining, Data Visualization, Knowledge Representation and Reasoning, Deep Learning, Artificial Intelligence, Soft Computing, Optimization Techniques, Operating Systems, Software Engineering, Object- Oriented Programming, Competitive Programming.

SKILLS AND CERTIFICATIONS

Languages/Technologies: Python, Java, SQL, Apex, TensorFlow, PyTorch, AWS, R, Git, Flask, .NET, Docker, Kubernetes, Tableau, Autogen, Huggingface,Angular.js, React Native, PyReft, Streamlit, JavaScript, TypeScript, React, HTML, CSS, GraphQL.

Soft Skills: Problem-Solving, Team Collaboration, Communication Skills, Adaptability, Self- Motivated & Ability to work Independently

Certifications: IBM Artificial Intelligence Analyst, **Google** Data Analytics Professional, Complete **Python** Pro Bootcamp, Google **UX** Design.

Publications: Research paper titled *"Brain Tumor Classification using Transfer Learning", published as a book chapter in "Machine Learning and Artificial Intelligence in Healthcare Systems".*

PROFESSIONAL EXPERIENCE

CodeFacts Solutions **Hyderabad, India**
React Native Developer Intern January 2023-May 2023

- Developed a client-specific dashboard app using **React Native CLI**, focusing on cross-platform compatibility and ensuring a smooth, user-friendly interface for both iOS and Android platforms.
- Built three functional modules for the company's website using **Angular.js**, incorporating dynamic features like real-time data updates, interactive elements, and seamless navigation to enhance the user experience.
- Integrated frontend with a **.NET** backend, collaborating with backend developers to ensure smooth data flow and improve overall application performance.
- Actively contributed to an **Agile development environment**, participating in sprint planning, daily stand-ups, and code reviews with cross-functional teams, ensuring timely delivery and high code quality.
- Focused on optimizing performance and debugging complex issues, ensuring the applications remained responsive, stable, and met client specifications.

Appshark Software **Hyderabad, India**
Frontend Developer Intern September 2022-December 2023

- Took an initiative to innovate a **data pipeline** architecture, designing a high-throughput survey translation system with **Apex**, **SQL**, and **LWC**, for blending normalization, caching, and indexing to enhance localization and lessen lookup latency across **5+ international markets**.
- Collaborated with a cross-functional team of 5 developers to design the Matrix question type data model in **Salesforce** Surveys, elevating ETL workflows, divided storage, and partitioning strategies, capturing a **$3M** market opportunity through efficient **data ingestion** and retrieval.
- Automated end-to-end **CI/CD** pipelines utilizing **Perforce**, **Jenkins**, and **GitHub** Actions, orchestrating containerized deployments with **Docker** and **Kubernetes**, streamlining data integration, and **version-controlled schema migration**.
- Leveraged data validation and integrity enforcement, achieving **95%-unit** test coverage and a **50%** reduction in post-release defects by applying Agile-driven **TDD/BDD** methodologies, automated validation suites (**JUnits**, **Web Drivers**, **X-Units**), and schema evolution techniques.
- Implemented fault-tolerant data ingestion strategies, perfecting **error handling**, anomaly detection, and consistency checks, ensuring high data quality, system reliability, and seamless **schema migrations** across dispersed environments.

Signode India **Hyderabad, India**
Data Engineering Intern June 2022-August 2022

- Architected a **Big Data** analytics solution capitalizing on the **Hadoop** ecosystem and **Apache Spark**, ameliorating data handling efficiency by **40%** and boosting processing speeds by **30%**, thereby revamping large-scale data operations across **7+ departments**.
- Synthesized **AWS Personalize** and **SageMaker** to improve sophisticated data models and specialized **recommendation engines**, focusing on strengthening data-driven decision-making capabilities.
- Engineered **Python** scripts for robust **ETL** processes, harnessing **AWS** cloud services such as **S3**, **EC2**, **and EMR** for efficient **Data scraping**, warehousing, and storage, resulting in a **35%** boost in data processing efficiency and system performance.
- Devised machine learning models engaging **TensorFlow** and **scikit-learn** to perform predictive analytics, increasing accuracy of forecasts by **30%** and permitting more effective business strategies.

PROJECTS

E-Grocery Website | React, TypeScript, Figma, UX Research, GRaphQL

- Developed a responsive e-grocery platform using **React & TypeScript**, optimizing UI/UX through **Figma** prototypes, usability testing, and accessibility enhancements.
- Integrated **GraphQL API** for efficient data fetching and developed via **Netlify** with CI/CD pipelines, implementing performance optimizations, seamless updates, and enhanced scalability.

Assistive Communication Platform for Individuals with Autism | Python, Streamlit, OpenCV, TensorFlow, LangChain

- Fostered a communication platform, to process **PECS**-based interaction for personalized, adaptive learning.
- Implemented **NLP**-driven speech synthesis and image processing to convert **visual symbols** into **auditory speech**.
- Refined data workflows with **Pandas**, and **PySpark**, extracting **behavioral analytics**, for **AI-based content recommendations**.
- Integrated an **AI chatbot**, facilitating context-aware responses, **adaptive learning**, and adapted communication for non-verbal users.

Brain Tumor Classification | Python, Tensorflow, OpenCV

- Partnered with a team of 3 to develop a transfer-learning model for brain tumor classification engaging **feature extraction and fusion** from four architectures, curtailing false negatives by **8%** through strengthened MR image analysis and **deep feature extraction**.
- Authored an internationally **published research paper** titled "*Brain Tumor Classification using Transfer Learning*", published as a book chapter in "*Machine Learning and Artificial Intelligence in Healthcare Systems*".