

# Sai Pranam Chillakuru

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## EDUCATION

### Indiana University

Indianapolis, U.S

Master of Science, Applied Data Science

May 2026

- Coursework: Data analytics, Big Data, Data analysis, Statistics for Data Science in R and Python, Neo4J

## SKILLS

- Programming Languages and Frameworks:** Python, R, SQL, Neo4j.
- Technical Expertise:** Scikit-learn, Pandas, Big Data, NumPy, TensorFlow
- Core Competencies:** Written & Verbal Communication, Collaboration, Problem Solving Skills, Continuous Learning, Cross Functional Teamwork.
- Leadership and Roles:** Coordinator for IoT Workshops, Member of the Arts Club, Robotics Workshop Participant.

## PROFESSIONAL EXPERIENCE

### Indiana University

August 2024 – May 2025

Graduate Research Assistant (Data Analyst)

- Analyzed large-scale datasets for NFL player performance and tracking using Pandas ETL, Python, and ML algorithms to analyse player and team dynamics.
- Utilized Plotly, Python, and scikit-learn to process and visualize large-scale player tracking and team positioning data.
- Leveraged geospatial data to map player movements and identify key patterns in player play under different game conditions.
- Developed and documented a comprehensive guidebook for the project, detailing analysis methods, tools used, and key findings.

### Infineon Technologies

May 2025 – Present

Data Science Intern

- Conduct exploratory data analysis (EDA) on large-scale datasets to uncover customer behavior patterns and optimize product association insights.
- Perform data wrangling and dataset joins using Pandas and PySpark, enhancing data integrity and model readiness.
- Design and implement machine learning-based recommendation engines for cross-selling, improving recommendation relevance and efficiency.
- Deliver actionable insights through Tableau and Excel dashboards, supporting strategic decisions for sales and marketing teams.

## PROJECTS

### Career Path-The Personalized Learning Navigator

January 2024 – May 2024

- Designed and implemented a recommendation engine using machine learning algorithms to suggest tailored learning paths.
- Integrated Big Data technologies such as Hadoop and Cassandra for scalable data storage and retrieval.
- Developed an interactive web-based platform to enhance user experience in career planning and skill development.
- Utilized Apache Hive for structured data querying and analysis to derive insights on user learning trends.
- Implemented real-time analytics to continuously refine and optimize recommendations based on user engagement.

### Unlocking Business Success Through Strategic Location Analysis

April 2025 – May 2025

- Analyzed economic and demographic factors using statistical methods to identify key drivers of business success across U.S. states and zip codes.
- Developed predictive models to determine the most promising locations for business establishment based on factors such as income levels, population trends, and business activity.
- Preprocessed, cleaned, and visualized large datasets using Python libraries (e.g., Pandas, Matplotlib) to extract actionable insights for business location optimization.
- Developed an interactive dashboard to analyze economic and demographic data, providing tailored business location recommendations based on key success factors.

## CERTIFICATIONS

- AWS Academy:** Data Engineering and Machine Learning
- IBM:** Machine Learning, Project Management Fundamentals, and Big Data Music Recommendation System
- CISCO Academy:** Introduction to Cybersecurity
- Neo4j** Graph Database.

## AWARDS

- Prathibha Award** – From Government of India for excellence in Secondary Education.
- Best Student Award-** From Gitam University for Conducting Workshops and Co-ordinating the Students.