Sai Pranam Chillakuru

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EDUCATION

Indiana University Indianapolis, U.S
Master of Science, Applied Data Science *Fall 2024*

- Relevant 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.
- **Tools:** Tableau, Microsoft Office, GitHub, Power BI, Vs Code
- **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, self-motivated, organizational skills.

PROFESSIONAL EXPERIENCE

Indiana University August 2024 - Present
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.

PHN Technology April 2023- June2023
Data Science and Machine Learning Intern (Library Management System – Big Data Implementation)

- Developed a distributed database using Apache Cassandra for efficient book inventory and transaction management.
- Designed a web-based platform for users to search, borrow, and return books seamlessly.
- Integrated Hadoop, Hive, and Spark for data storage, processing, and real-time analytics.
- Optimized query performance using Hive partitioning and indexing, improving data retrieval speed.
- Developed RESTful APIs for external integrations and secured access control for librarians and users.

PROJECTS

Career Path-The Personalized Learning Navigator

- 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

- 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.