

Karnati Anurag Reddy

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Education

Master of Science in Computer Science

University of Illinois Chicago

Aug 2023 – May 2025

Chicago, Illinois, USA

Bachelor of Technology in Computer Science and Engineering

Amity University

Aug 2019 – May 2023

Chhattisgarh, India

Relevant Coursework: Data Structures, Operating System, Database Management, Data Science, Machine Learning, Cloud Computing, Big Data, Software Engineering, Calculus, Linear Algebra, Statistics, Deep Learning, Data Visualization

Technical Skills

Programming Languages: Python, C, C++, Java, JavaScript, SQL, R Programming

Developer Tools: Jupyter Notebook, PostgreSQL, PyCharm, Git, Databricks, Azure, GCP, Google Analytics, Data Warehouse, PowerBI, Tableau, Looker, BigQuery, Story Telling, ETL, Database, Excel, Business Analytics

Technologies/Frameworks: Pandas, Numpy, HTML, CSS, React.js, Node.js, TensorFlow, Scikit-learn, PySpark

Concepts: Object Oriented Programming, Algorithms, Machine Learning System Design, Regression, Neural Networks, NLP, CNN

Experience

Data Research Analyst, Caterpillar Inc

Jun 2024 – Present

- Designed and deployed scalable data solutions, transforming raw data into accessible formats, driving a 30% increase in user adoption and operational efficiencies.
- Guided 10+ stakeholders on analytic projects, aligning data insights with business goals. Drove a 20% improvement in customer retention strategies and optimized marketing spend efficiency by 15%, fostering a data-driven culture.
- Developed and standardized data documentation, enhancing transparency and consistency. Improved cross-team collaboration, reducing data misinterpretation by 30% and accelerating project turnaround time by 20%.
- Lead data quality management initiatives, implementing tools and audits that improve data integrity by 40%, ensuring reliable data for critical business processes.

Data Analyst, Keplaar Esports

Mar 2023 – May 2023

- Analyzed over 4.1 million data points across diverse esports data streams, extracting actionable insights that guided strategic planning and operational improvements.
- Collaborate with interdisciplinary teams to develop innovative data visualization strategies, creating compelling presentations that influence key stakeholder decisions and enhance data-driven storytelling.
- Built predictive models in Python using Scikit-learn, which increased audience engagement by 36% and boosted marketing ROI by 25%.

Academic Projects

Spotify Top 50 Songs Analysis

Jun 2022

- Conducted a detailed exploration of Spotify's user data to uncover patterns in listening behaviors and preferences across various demographics, identifying high-engagement genres and correlations between user traits and musical interests.
- Apply advanced statistical techniques and create interactive visualizations to analyze user demographics, preferred genres, and listening times, improving recommendation accuracy by 25% and enhancing user engagement.
- Delivered comprehensive reports and visually engaging presentations, translating complex analyses into actionable strategies that improved user satisfaction, engagement, and revenue growth.

Supermarket Sales Analysis

Apr 2022

- Analyzed weekly sales data to uncover seasonal trends and product preferences, providing actionable insights into customer buying patterns that enhanced engagement strategies for targeted marketing campaigns.
- Analyzed sales trends and customer preferences to refine promotional strategies, resulting in a 30% increase in seasonal product uptake across key categories.
- Produced detailed reports and strategic recommendations, showcasing the impact of data analytics on inventory management and marketing decisions, resulting in sustained performance enhancements.