

Karunya Srinivasan

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Summary

Data professional with 1+ year of experience in data analytics, statistical modeling, and machine learning. Skilled in Python, SQL, and Power BI for building predictive models, automation pipelines, and interactive dashboards. Strong foundation in data preprocessing, feature engineering and statistical testing for driving business insights and scalable AI solutions.

Skills

Programming & ML: Python (Pandas, NumPy, Scikit-learn, TensorFlow, PyTorch), SQL

Data Analytics: Data Cleaning, EDA, Statistical Analysis, Predictive Modeling, A/B Testing

Visualization & Reporting: Power BI, Excel (Pivot Tables, Power Query), Matplotlib, Seaborn, Plotly, Streamlit

Databases: MySQL, PostgreSQL, MongoDB

Tools & Platforms: AzureML, Google Analytics, Docker, Git, Jupyter, IBM Cognos

Education

University of Western Ontario, MSc in Computer Science

Sept 2024 – Sept 2025

- **GPA:** 4.0/4.0

- **Courses:** Intro to Machine Learning, Advanced AI, Database II, Brain Inspired AI, Parallel Computing

- **Research:** Conducted comparative analysis study of XAI models for synthetically generated tabular data, evaluating performance across different scenarios.

Anna University, BE in Computer Science

2020 – 2024

Experience

Data Research Assistant, University of Western Ontario – London, Canada

July 2025 – present

- Designed automated data pipelines and performed validation using Python (Pandas, NumPy) for text processing.
- Designed automated data pipelines for transforming unstructured text into analyzable formats, enhancing data accessibility.
- Conducted quality checks and statistical analysis to evaluate data integrity and optimize processes.

Freelance Data Analyst, E-commerce Platform – Remote

Mar 2023 – July 2024

- Conducted customer segmentation and sales trend analysis using SQL and Python, increasing revenue by 15%.
- Created interactive dashboards using Google Analytics, visualizing KPIs, churn, and campaign performance for stakeholders.
- Applied regression and forecasting models for demand prediction and dynamic pricing optimization.
- Monitored sales funnel metrics, identifying bottlenecks that improved conversion rates by 12%.

Developer Intern, National Association of Software & Service Companies – Chennai, India

Mar 2023 – May 2023

- Built a NLP-based chatbot for automating customer support using Python (Pandas, Scikit-Learn), reducing human intervention by 40%.
- Collaborated with a team to clean, preprocess, and validate noisy 10K+ user queries, developing text classification model for sentiment analysis with 90% accuracy.
- Deployed via Telegram API, handling 100+ daily queries and improving response efficiency.

Projects

ML-Powered Taxi Fare Prediction Using Docker

- Built and fine-tuned a LightGBM regression model ($R^2=0.84$) using 50K+ trip records to predict taxi fares.
- Conducted feature engineering, hyperparameter tuning, and automated data extraction with Docker.

News Summarizer using Web Scraping & NLP

- Scrapped 500+ news articles using BeautifulSoup and preprocessed text with NLTK.
- Fine-tuned a HuggingFace BART transformer model for abstractive summarization.

Grocery Sales Analysis – IBM Cognos Analytics

- Conducted EDA and built SQL-based data pipelines to process sales data for efficient reporting.
- Created dashboards to visualize revenue, customer behavior, and product performance trends.

HR Analytics Dashboard Using Power BI

- Developed an interactive HR dashboard to analyze attrition, performance, and recruitment metrics.
- Cleaned and validated 1,400+ HR datasets using Power Query, ensuring accuracy and reliability.

Certifications

- Google Data Analytics Professional Certificate
- Master Artificial Intelligence: Build 6 AI Projects – Udemy