

# KEERTHIKA KANAGARAJ

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## EDUCATION

**Masters in Analytics | Northeastern University | Boston, MA**

**Expected Dec 2026**

**Relevant Courses:** Python, Predictive Analytics, Statistics and Probabilities, R, Data Mining, Data Management, and Big Data, Fundamentals and Applications of AI & AI System Technologies and Gen AI

**GPA – 3.9/4.0**

**Bachelors in Electronics & Telco | Sri Krishna College | Coimbatore, India**

**Aug 2015 – Apr 2019**

**GPA – 8.71/10**

## TECHNICAL SKILLS

|                                     |   |
|-------------------------------------|---|
| <b>Programming Languages</b>        | Python (Scikit-learn, TensorFlow, NLTK, NumPy, Pandas, Matplotlib, Seaborn), R, SQL                 |
| <b>Database Technologies</b>        | MS SQL, MySQL, PostgreSQL   |
| <b>BI &amp; Data Visualization</b>  | Power BI, Tableau, Advanced Excel, Jupyter Notebook, Power Automate                                 |
| <b>Data Engineering &amp; Cloud</b> | AWS, SSIS, Snowflake, ETL, Spark  |
| <b>Statistical Concepts</b>         | Hypothesis Test, ANOVA, Chi-squared & t-test, A/B Testing, Bayesian Inference, Time Series Forecast |
| <b>ML Techniques</b>                | Supervised learning, Unsupervised learning, Natural Language Processing (NLP)                       |
| <b>Productivity Tools</b>           | Jira, Microsoft Office Suite, Git   |
| <b>Certifications</b>               | AWS AI Practitioner, Snow Pro by Snowflake, Microsoft Power BI                                      |

## PROJECTS

**University Explorer AI Chatbot | NLP**

**Apr 2025 – Present**

- Contributed to the second phase of the University Explorer AI Chatbot by expanding database integration to include additional IPEDS tables and migrating the backend from an external Digital Ocean PostgreSQL to an internal Red Hat OpenShift-hosted instance
- Collaborated with Akamai Technologies and Red Hat teams to ensure secure multi-project deployment and resource provisioning within OpenShift AI, leveraging **Docker** for containerization and orchestration
- Enhanced LangChain and LlamaIndex pipelines for accurate Text-to-SQL generation using GPT-3.5 Turbo and LLaMA2, while leveraging **Git** for version control and CI/CD workflows.

**AI-Powered Climate Policy Analyzer using LLMs and RAG Framework | NLP**

**May 2025 – Jun 2025**

- Built a Retrieval-Augmented Generation (RAG) pipeline using LangChain, HuggingFace embeddings, and Ollama **LLMs** to analyze 100+ UN climate finance documents
- Designed and implemented an end-to-end LLM workflow for scraping, cleaning, semantic indexing, and querying policy texts
- Evaluated model outputs using LLaMA2 to assess factual accuracy and relevance in answering climate finance research questions

**Transitory Segmentation and Retail Archetype Modeling using Mobility & Transit Data | Machine Learning** **Apr 2025 – Jun 2025**

- Built a geospatial ML model to segment MA Census Block Groups using mobility, dwell time, and transit proximity
- Engineered transitory scores from SafeGraph, MBTA, and Census data using spatial joins and feature scaling in Python
- Applied K-Means clustering to classify regions into retail archetypes and delivered a Tableau dashboard identifying high-opportunity retail zones for urban planning

## PROFESSIONAL EXPERIENCE

**Logic Pursuits | Hyderabad, India**

**Data Analytics**

**May 2022 - Jul 2024**

- Worked on enterprise data management by leveraging SQL and SSIS to design and maintain **ETL** processes, ensuring seamless business-as-usual operations
- Utilized **Python** (pandas, NumPy, seaborn, Plotly) to perform large-scale exploratory analysis and implemented process automation initiatives using **SQL**, and utilized data-wrangling techniques to preprocess financial unstructured data
- Conducting data mapping and profiling during data migration validation and managing large-scale data models, ensuring minimal data loss while transitioning to **Snowflake**

**Deloitte | Bangalore, India**

**Data Analyst**

**Jun 2021 - May 2022**

- Built KPI dashboards in **Power BI** and Azure Analysis Services, providing data-driven insights into Net Revenue Management
- Applied expertise in data modeling and business logic to develop practical solutions for end-users and collaborated closely with stakeholders to deliver seamless cloud-based reports, improving customer satisfaction and operational efficiency

**Gain Insights Solutions | Chennai, India**

**Associate BI Consultant**

**Feb 2019 – Jun 2021**

- Applied data analysis techniques to drive meaningful insights in Power BI by conducting quantitative and qualitative metrics, including Customer Segmentation, Time Series Analysis, Churn analysis, and Cohort analysis on structured and unstructured data