

Harish Padmanabhan

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EDUCATION

Northeastern University <i>Master of Science in Data Analytics Engineering</i> <ul style="list-style-type: none">Relevant Coursework: Foundations of Data Analytics, Data Management for Analytics, Computation and Visualization, Data Mining in Engineering, Large Language Models	Boston, MA Sep 2024 - May 2026
Anna University <i>Bachelor of Engineering in Mechanical Engineering</i> <ul style="list-style-type: none">Relevant Coursework: Python Programming, Statistics and Numerical Methods	Chennai, India Aug 2018 - Aug 2022

TECHNICAL SKILLS

Programming & Scripting: SQL, Python (NumPy, SciPy, Scikit-learn, Pandas, Matplotlib)
Business Intelligence & Reporting: Power BI, Tableau, Data-Driven Insights, KPI Dashboards
Data Engineering & Management: SQL, NoSQL, MySQL, MongoDB, Apache Airflow, SSIS, Informatica
Data Science & Analytics: Predictive Modeling, Statistical Analysis, Data Visualization
Machine Learning: Statistics, Regression, Classification, Clustering, Lasso/Ridge, Hypothesis & A/B Testing

WORK EXPERIENCE

Infosys Limited Data Engineer	Chennai, India Aug 2022 - Aug 2024
<ul style="list-style-type: none">Built a scalable, distributed data pipeline framework to process real-time streaming data, reducing processing time by 40% and enabling high-performance real analyticsDeveloped and presented interactive Tableau dashboards to stakeholders, transforming complex datasets into actionable insights, improving data-driven decision-making by 25%Designed data-driven business cases for process optimization, leading to 30% efficiency gainsLed a team of six data engineers to streamline workflows, reducing project timelines by 20%Coordinated project timelines within Scrum and Waterfall frameworks using Jira, optimizing timelines by 20% and ensuring on-time delivery within scope and budget	

PROJECTS

Natural Language to SQL Translation with Fine-Tuned LLM <ul style="list-style-type: none">Fine-tuned T5-small on the ATIS dataset to convert natural language queries into executable SQL, achieving over 50% exact match accuracyEngineered schema-aware input prompts and custom training logic with layer freezing, optimizer tuning, and early stopping for improved SQL generationBuilt an end-to-end evaluation pipeline using SQLite3 to validate generated queries against the database, ensuring syntactic and execution correctness	Jul 2025
Predicting Stroke Risk from Health Data <ul style="list-style-type: none">Performed data pre-processing tasks such as handling missing values, feature scaling, and dimensionality reduction to improve model performanceDeveloped predictive models using machine learning algorithms to identify early signs of stroke riskVisualized results through Tableau dashboards, showcasing prediction accuracy and key factors influencing early diagnosis	Apr 2025
EV Vehicle Charging Analysis <ul style="list-style-type: none">Developed databases for efficient data management by designing optimized schema using SQL Server and utilizing real-time data injection techniques to ensure continuous data collection storage for analysisAnalyzed large datasets of EV charging sessions by applying statistical methods using Matplotlib to identify patterns and forecasting energy usage at different locationsBuilt interactive dashboards and visualizations using Tableau to analyze data on charging station utilization and peak demand times at various geographical locations	Dec 2024