

# Shiv Karthee Janardhanan

Los Angeles, CA

562 341-6693 | [karthee.shiv@gmail.com](mailto:karthee.shiv@gmail.com) | [GitHub](#) | [LinkedIn](#) | [Portfolio](#)

## EDUCATION

**California State University, Long Beach**

**Expected: May 2026**

Master of Science in Information Technology

GPA: 4.0/4.0

Relevant Coursework: Machine Learning, Statistics, System Analysis & Design, Deep Learning, Business Data Analytics

**Rajalakshmi Engineering College**

**April 2020**

Bachelor of Engineering in Computer Science

GPA: 7.1/10.0

Relevant Coursework: Database Management Systems, Data Analytics, Artificial Intelligence, Computer Programming

## PROFESSIONAL EXPERIENCE

**Backend Developer Intern** | Steam Troops Innovation Labs

**January 2024 - June 2024**

- Built server-side application with Node.js to handle large datasets efficiently, enhancing overall system performance.
- Designed and optimized PostgreSQL queries and integrated RESTful APIs for efficient data exchange, reporting.
- Enhanced data processing performance through database optimization techniques, reducing page load time by 30%.

**Systems Engineer** | Tata Consultancy Services

**September 2020 - October 2022**

- Extracted insights using complex SQL queries and data aggregation techniques, enhancing system performance.
- Accelerated data workflows by 10% by designing and optimizing ETL processes with Informatica PowerCenter
- Automated workflows using PL/SQL stored procedures across multiple databases, improving efficiency by 50%.
- Diagnosed and resolved 150+ critical database and application performance issues, maintaining 100% SLA compliance.

## PROJECTS

**Transformer-Based Language Model** | Python, Pandas, PyTorch, NumPy, AdamW

**November 2024**

- Engineered transformer-based language model using diverse datasets, training extensively on over 35 million characters.
- Improved text prediction accuracy by 40% through using self-attention mechanisms and hyperparameter optimization.
- Minimized overfitting by implementing dropout regularization and gradient clipping, achieving 25% lower validation loss.

**El- Clásico Visualization and Analysis** | Python, Tableau, Excel

**February 2025**

- Performed EDA on historical El Clásico match data from Wikipedia & Transfermarkt using Python & Excel.
- Developed interactive Tableau dashboards to visualize trends in wins, goals, player performances, and venue impacts.
- Analyzed historical patterns in team dominance, goal-scoring trends, and competition-specific performances.

**Cryptocurrency Prediction Analysis** | SPSS, Regression, KNN

**October 2024**

- Cleaned and preprocessed survey dataset of 6,000+ responses, ensuring quality data for model implementation.
- Achieved 85% prediction accuracy using Logistic Regression and KNN for cryptocurrency investment analysis.
- Identified 10+ significant predictors, providing actionable insights for policy-making and risk mitigation strategies.

## TECHNICAL SKILLS

**Frameworks and Technologies:** Python, SQL, PL/SQL, C++, Java, JavaScript, Angular, Node.js

**Data Tool Stack:** Microsoft Fabric, SPSS, Informatica PowerCenter, Oracle DB, SQL (MySQL, Postgre SQL)

**Libraries/Frameworks:** PyTorch, Pandas, NumPy, Keras, Scikit-learn, FastAPI, TensorFlow, XGBoost.

**Business Intelligence & Data Visualization:** Tableau, Power BI, Matplotlib, Seaborn, Alteryx, Excel.

**Machine Learning:** Hypothesis testing, Mathematics, Regression, Classification, LLM, Clustering.

**Cloud & DevOps:** Oracle ERP, AWS (EC2, S3, Lambda), GCP, Microsoft office suite, Docker, Kubernetes.

## CERTIFICATIONS

Microsoft Fabric Analytics Engineer Associate (January 2025) / AWS Academy Cloud Foundations (December 2024) / Alteryx 2x Certified (September 2024) / Machine learning : AI, Python and R (June 2024)

## EXTRACURRICULAR ACTIVITIES

Intern, Association for Information Systems / Member, American Marketing Association