

Priyamvradha Parthasarathi

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CERTIFICATIONS & TECHNICAL SKILLS

Certifications:	Applied Machine Learning, Alteryx Designer Core, SQL for Data Analysis
Tools:	Alteryx, Tableau, Power BI, JIRA, Git
Statistical Modeling:	ANOVA, T-test, Hypothesis Testing, Time Series Analysis, Natural Language Processing
Machine Learning Algorithm:	Regression, Classification, Decision Tree, Random Forest, SVM, XG Boost, Clustering
Programming:	R, Python (Pandas, NumPy, Matplotlib, Seaborn, Spacy, nltk, Tensorflow, PyTorch), SQL.
Databases:	MySQL, Oracle, MongoDB
Other:	LLMs, Langchain, OpenAI, PaLM2, StreamLit

PROFESSIONAL EXPERIENCE

- AI Data Specialist - Kaay Labs Inc**, United States June 2024 – Present
- Designed and implemented AI models using **Langchain** and **Retrieval-Augmented Generation (RAG)** techniques to create a highly accurate and responsive QA chatbot tailored to specific client requirements.
 - Utilized **reinforcement learning** and **interactive training methods** to continuously improve the performance and adaptability of the AI model.
- Data Analyst Intern - Kaay Labs Inc**, United States June 2023 – August 2023
- Collaborated with cross-functional teams to define **key performance indicators (KPIs)** and establish consistent metrics definitions for accurate reporting and analysis.
 - Organised and maintained interactive metrics and dashboards using **Python** and **Tableau**, contributing to a 30% increase in user engagement and enabling stakeholders to make informed decisions in real time.
- Senior Data Engineer - Larsen and Toubro Infotech LTI**, India May 2019 – July 2022
- Engineered and implemented a highly efficient **ETL** reporting system, streamlining data extraction, transformation, and loading processes, resulting in a 40% reduction in data processing time.
 - Enhanced, modified, and maintained **SQL queries** and procedures for reports and improved SQL queries which reduced client application runtime by 50%.
 - Led** a team of 20 members and **collaborated** with the client on upgrading a web application (MHUB 4. x) and completed upgrade without impact within 2 months and received strong client appreciation for efforts.
 - Leveraged **Agile Methodology** to prioritize and manage project tasks, realizing a 25% uptick in team productivity.

PROJECTS

- Q&A Assistance Chat Bot** | (LLM, Vector Encoding, Prompt, Python) | [GitHub](#) June 2024
- Designed a Q&A chatbot using **PaLM2** LLM in Python, proficiently answering frequently asked questions through advanced **Instruct Embedding** and **FAISS** integration
- Document Query Navigating Chat Bot** | (LLM, Text splitting, Vector Encoding, Prompt, Python) | [GitHub](#) June 2024
- Developed a query navigating chatbot using **OpenAI** LLM (GPT-4), **OpenAI Embedding**, and **Chroma** in Python, extracting accurate answers from documents based on user queries.
- Stock Trend Prediction based on Social Media Articles** | (Sentimental Analysis, Python) | [GitHub](#) May 2024
- Engineered a Stock Trend Prediction System on Tesla-related tweets, attaining 89.8% accuracy with **Naive Bayes** and investigated sentiment-stock **correlation**, revealing dynamics between sentiment and stock prices.
- Automatic Text Summarization System** | (Text Summarization, Python) | [GitHub](#) March 2024
- Created an Automatic Text Summarization System using **NLTK** and **SpaCy**, incorporating text preprocessing, POS tagging, NER, and classification techniques to generate concise summaries of news headlines.
- Credit Card Approval Prediction System** | (Random Forest, SVM, XG boost) | [GitHub](#) May 2023
- Structured a credit card approval prediction system in **Python**, leveraging **classification** machine learning models. Achieved a 98% accuracy through comprehensive evaluation applying diverse metrics.
- Heart Attack Prediction System** | (Decision Tree, Logistic Regression, R) | [GitHub](#) November 2022
- Built a heart attack prediction system using **supervised learning** methods with **R programming**, achieving an impressive accuracy of 88% by employing various performance evaluation methods.

EDUCATION

- Master of Science, Business Analytics** - The University of Texas at Dallas | GPA 3.83 - Scholar with Distinction May 2024
- Major – Data Science**
- Bachelor of Engineering, Electronics and Communication Engineering** - Anna University | GPA 3.30 April 2019