

Beulah Divya Kannan

Los Angeles, CA - 90007 · beulahdi@usc.edu · +1 (213) 756-7160

[Linkedin Profile](#) · [Github Profile](#) · [Portfolio Website](#)

EDUCATION

University of Southern California

Los Angeles, United States

Master of Science in Analytics, GPA: 4.0

Dec 2025

Honors: Alpha Pi Mu – Industrial Engineering Honor Society (Top 10 ISE MS Students)

Coursework: Predictive Analytics, Optimization methods for Analytics, Data Management for Analytics, Enterprise Business Intelligence, Data Analytics Consulting, Data Mining, Customer Analytics

Madras Institute of Technology, Anna University

Chennai, India

Bachelor of Engineering, Electronics and Communications Engineering, CGPA: 8.33/10

June 2023

Coursework: Digital System Design, Data Structures and Algorithms, Communication Networks, Principles of Management

RELEVANT SKILLS

Languages/Tools: Python, SQL, Tableau, Advanced Excel, Pandas, Scikit-learn, Microsoft Office Suite (Word, Excel, PowerPoint)

Platforms: Snowflake, Vertex AI, Google Cloud Platform, Amazon SageMaker, Google Analytics

Techniques: Data Cleaning, Visualization, ML Modeling, A/B Testing, Predictive Analytics, Forecasting, Stakeholder Communication

WORK EXPERIENCE

Los Angeles General Medical Center

Los Angeles, United States

Strategy and Operations Intern

May 2025 - Present

- Mapped end-to-end inpatient/outpatient workflows by creating **high-level and detailed Swimlane process maps**, shadowing 11 patients, and analyzing procedure logs, wait times, and physician interviews; uncovered **5+ inefficiencies** and implemented changes that **reduced IR room turnover time by 25%**
- Designed and deployed Tableau dashboards to **monitor 8+ KPIs**—including idle time, procedural delays, and equipment use enabling real-time performance monitoring
- Simulated radiology workflows using Arena and Process Analyzer, evaluating bed reallocation and tech-delay scenarios that **increased IR room utilization by 20%** (+11–20 patients/month) without structural expansion; model designed for replication across other DHS hospitals

WorkUp

Los Angeles, United States

Data Science Intern

May 2024 - July 2024

- Analyzed user engagement and sentiment trends using Python to uncover behavior patterns; collaborated with cross-functional teams to refine recommendation algorithms, improving customer retention and user satisfaction
- Performed exploratory data analysis and feature engineering on synthetic datasets; built a predictive model to forecast user behavior with 98% accuracy, supporting data-driven retention strategies

National Institute of Technology, Tiruchirappalli

Tiruchirappalli, India

Research Intern

Aug 2022 - Aug 2023

- **Published 4 peer-reviewed papers** on Web 3.0-compliant recommendation systems in video, image and news recommendations, leveraging deep learning, ontology alignment, and semantic modeling achieving precision up to 98%, recall up to 99%, accuracy up to 98%, and consistently low false discovery rates.

ACADEMIC PROJECT EXPERIENCE

Predicting 30-Day Patient Readmissions by building pipelines using Vertex AI in GCP

Dec 2024

- Developed XGBoost-based predictive model pipelines, **automating ETL processes and feature engineering**, improving F1-score by 22% over Logistic Regression. Enhanced data quality through class balancing and feature selection on a 10.6K-row dataset.

Data Exploration and Insights: Climate Change Impact on Agriculture

Oct 2024

- Designed an interactive Tableau dashboard (1990-2024) analyzing climate change's impact on agriculture, **featuring KPIs** like crop yield, irrigation access, pesticide use, and economic impact. Integrated **dynamic filters** to enable in-depth trend exploration

LEADERSHIP AND EXTRACURRICULAR ACTIVITIES

Viterbi Career Ambassador, Viterbi School of Engineering, USC

Aug 2024 - Present

- Mentored 20+ peers in career development, facilitated workshops and guided students in **professional growth**
- Helped **automate inventory tracking** and streamlined the main career's website to **improve internal operations**