

NISTALA KAMESWARI SHALINI

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EDUCATION

California State University Los Angeles

Los Angeles, CA, USA

Master of Science - Computer science, GPA: 3.8 / 4.0

January 2024- December 2025

Courses: Analysis of Algorithms, Web Programming, Introduction to Artificial Intelligence, Operating Systems, Software Architecture

Jawaharlal Nehru Technological University

Hyderabad, TS, India

Bachelor of Technology - Computer Science, GPA: 9.92 / 10.0

August 2016-September 2020

Courses: Analysis of Algorithms, Database Management Systems, Data Structures, Data Mining, JAVA, Web Technologies

WORK EXPERIENCE

Apple (TCS - Tata Consultancy Service)

Hyderabad, India

Software Development Engineer

July 2020-November 2023

- Improved shipment processing speed by **20%** and received a **15%** increase in user satisfaction while building **APIs** for **Apple's warehouse management application** using **SAP BTP Platform**, **CAPM Java framework**, **Apache Maven** and **JAVA Spring Boot**.
- Increased SAP product communication efficiency with cloud **SaaS**-based solutions by **25%** through optimized architecture designs and reduced task processing time by **30%** with new Apple Enterprise Portal (PD5) Application, enhancing back-office efficiency.
- Developed and deployed **10 critical APIs**, facilitating seamless cloud integration and enhancing system interoperability.
- Developed **APIs** for Apple Tax Profile Management System using **SAP Cloud Platform**, **SAP HANA Cloud**, **SAP Business Application Studio**, **Java Spring Boot**, **Postman**, **Jenkins for CI/CD automation**, and **JIRA for project management and tracking progress**, improving tax verification process for apple products and ensuring precise handling of tax-related information during billing.
- Developed APIs to fetch data from an S4 HANA **on-premise OData service** to the cloud by configuring a **destination** in the Cloud Foundry environment to connect and retrieve data, ensuring seamless integration and accurate data handling.
- Designed and executed **unit tests** using **JUnit** and **Mockito** to validate API functionality and ensure code quality.
- Led comprehensive training sessions for new employees, fostering an environment of knowledge sharing and skill development.

TIFR – Tata Institute of Fundamental Research

Hyderabad, India

Software Engineer Intern

May 2019-July 2019

- Boosted research productivity at TIFR by **30%** through the development of a user-friendly platform using **JavaScript**, **JSP**, **HTML**, and **CSS**, which streamlined the tracking and sharing of research progress for students.
- Increased student engagement on the CS department's website by **40%** by introducing an interactive forum built with **JavaScript**, **HTML**, and **CSS**, fostering lively discussions and collaborative learning among students.

ACADEMIC PROJECTS

Prediction and Analysis of Diabetes

- Applied and compared **KNN**, **SVM**, **LR**, **Decision Tree**, **Random Forest** and **Gradient Boosting** on a Kaggle diabetes dataset, with KNN achieving **85%** accuracy, which can significantly help in enhancing early detection and diagnosis of diabetes.

Meal Planner Application

- Developed a full-stack **Meal Planner Application** using **JavaScript**, **Node.js**, **Express.js**, **MongoDB**, and **Svelte.js**, integrating the **Spoonacular API** to fetch meal data in **JSON** format, enabling users to create personalized meal plans based on dietary preferences, with features like user authentication, meal search, and dynamic meal plan management.

Blackjack Analysis using Multi-Model Solutions

- Developed and evaluated **KNN**, **Random Forest**, **Gradient Boosting**, **Q-Learning**, and **Monte Carlo models** on a Kaggle dataset of **50 million records** to optimize decision-making in Blackjack, finding that Q-Learning and Monte Carlo methods outperformed others with win rates of **41.56%** and **43.54%**, respectively.

ACHIEVEMENTS

- Published paper titled 'Prediction and Analysis of Diabetes using Machine Learning' in Scopus Indexed **International Journal of Innovative Technology and Exploring Engineering (IJITEE) Vol.8 Issue 7 (2019)**.

TECHNICAL SKILLS

Programming Languages: Java, Python, SQL, JavaScript, C++, C, Object-Oriented Design, Kotlin

Frameworks: Java Spring Boot, SAP Cloud Application Programming Model (CAPM), Express.js, Svelte.js, Junit, Mockito, Apache Maven

Libraries /Platforms: Data Science - NumPy, Pandas, Scikit-Learn, Matplotlib, TensorFlow, RabbitMQ, Jira, Jenkins, Git, Postman, AWS

Web Technologies: HTML, CSS, XML, PHP, JSP, Bootstrap, AJAX, Node.js

Databases: PostgreSQL, MySQL, SAP Hana, SQLite, MongoDB