

# Arshaya babu

## Junior Software Engineer

Junior Software Engineer with expertise in Python, Java, SQL, and full-stack development. Proficient in software development, debugging, and database management, with hands-on experience in building scalable applications and optimizing code performance. Passionate about problem-solving, Agile methodologies, and continuous learning in software engineering.

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## EDUCATION

### Artificial Intelligence & Machine Learning AMC Engineering College

2020 - 2024

Bangalore

#### Courses

- Integrated real-world projects and industry collaborations to enhance AI & ML skills, applying theoretical knowledge to practical solutions.

## WORK EXPERIENCE

### DATA SCIENCE INTERN Codsoft

08/2023 - 09/2023

#### Achievements/Tasks

- **IRIS Flower Classification:** Developed a machine learning model using Python, Scikit-Learn to classify iris flowers based on petal and sepal features. Achieved 95% accuracy using Logistic Regression and Decision Tree algorithms. Applied data preprocessing and feature engineering, improving model performance and accuracy.
- **Sales Prediction Using Python:** Built a predictive model using Linear Regression, Pandas, and NumPy to analyze historical sales data and forecast future trends. Improved accuracy by 20% through feature selection and hyperparameter tuning . Used Matplotlib and Seaborn for data visualization to aid business decision-making.
- **Titanic Survival Prediction:** Designed a classification model using Python, Pandas, and Scikit-Learn to predict passenger survival rates. Enhanced accuracy to 85% using Random Forest and Logistic Regression . Optimized feature engineering and missing value handling , improving data quality and model precision.

## SKILLS

HTML

CSS

JavaScript

SQL(MySQL,PostgreSQL)

Python

AI & ML

Tableau

Excel

PowerBI

## PERSONAL PROJECTS

### Interactive Portfolio Website

- Designed and developed a fully responsive portfolio website using HTML, CSS, and JavaScript , showcasing projects and skills. Integrated interactive UI components , smooth animations, and form validation to enhance user experience. Optimized website performance for faster load times and cross-browser compatibility . Implemented SEO best practices and ensured mobile responsiveness using CSS Flexbox and Grid .

### Youtube Clone

- Developed a responsive YouTube UI replica using HTML and CSS , focusing on an intuitive user experience. Utilized Flexbox and Grid for adaptive design, ensuring cross-browser compatibility and accessibility . Designed structured video elements like navbar, sidebar, and video grid to enhance navigation and create a dynamic user interface.

### Skincare Recommendation Engine

- Built a machine learning-based skincare recommendation system that suggests products based on skin type and concerns . Leveraged AI models like Decision Trees and KNN for accurate classification. Designed an interactive UI for better user engagement and optimized data handling to enhance system efficiency.

### Online Retail Store in SQL

- Designed an SQL database for an online retail store with CRUD operations to manage products, orders, and customer transactions. Developed complex SQL queries for optimized data retrieval, inventory tracking, and reporting . Implemented a normalized database schema with primary and foreign keys to ensure data integrity and seamless transactions .

## LANGUAGES

English

Full Professional Proficiency

Tamil

Full Professional Proficiency

Hindi

Professional Working Proficiency

Kannada

Limited Working Proficiency

Japanese

Professional Working Proficiency

## CERTIFICATIONS

Foundation of DataScience - Google

Basics of Python - Infosys