Jagadeesh P

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Professional Summary

A Data Science graduate with a strong foundation in Python and Machine Learning. Adept at handling large datasets, implementing predictive models, and uncovering patterns to drive strategic business decisions. My academic projects have honed my ability to work with diverse datasets, optimize algorithms and deliver data-driven solutions that impact real-world applications. Eager to apply my knowledge in a challenging role that fosters innovation and growth.

Education

M.sc, Data Science & Business Analytics **2022 – 2024**
Vels Institute of Science, Technology & Advanced Studies Chennai, TN

B.sc, Computer Science **2019 – 2022**
S.I.V.E.T College Chennai, TN

Skills

Technical Skills

Programming Languages – Java, Python
Database – MySQL
Frameworks (Basics) – Spring Boot, Scikit-learn, keras
Object – **Oriented Programming(OOP)** – Solid understanding and application of OOP principles
Data Science & Machine Learning – Supervised Learning, Unsupervised Learning, Tensorflow, ETL
Data Analysis & Visualization – NumPy, Pandas, Matplotlib, Seaborn, Power BI, Tableau
Productivity Tools – Spring Boot Tool Suite 4, Eclipse, Google Colab, Microsoft Office

Academic Projects

Project 1: Shelter Management System – Backend (Spring Boot, MySQL)

Collaborated in the development of a Spring Boot-based backend system designed to manage disaster-time shelters effectively.
Implemented role-based authorization to provide distinct access levels for Shelter Owners and Viewers, ensuring security and functionality.
Worked with Shelter Owners to enable them to easily register, update shelter availability, and manage shelter details as part of a seamless process.
Developed features for Viewers to quickly search for and check shelter availability in real-time, improving their experience during emergencies.
Leveraged Spring Security to protect user data and ensure secure access across all levels of the application.
Designed and created a RESTful API that enabled smooth interaction between the system and users, enhancing user engagement.
Contributed to building robust exception handling and validation systems, ensuring a smooth and error-free user experience.

Project 2: Heart Disease Prediction using Machine Learning

Developed a predictive model to assess heart disease risk using machine learning algorithms.
Using Python, scikit-learn, TensorFlow Decision Tree, Logistic Regression, Gaussian Naive Bayes, Neural Network.
Data Preprocessing, Feature Engineering, Model Development.
Evaluation Metrics: Precision, Recall, F1-Score.
Conducted hyperparameter tuning using techniques like grid search and random search.
Implemented cross-validation to ensure model generalizability.
Achieved an accuracy of 89-92, significantly improving early detection capabilities. Demonstrated proficiency in end-to-end machine learning development for healthcare analytics.

Academic Achievement

- Participated in the Inter-College project expo NextGen competition and won 3rd place in 2024.

Certification

- Advanced Java with Frameworks – FITA Academy. Dec 2024 – Feb 2025