LAKSHMI CHERITHA RACHAMREDDY

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OBJECTIVE

Highly motivated computer science graduate seeking to leverage academic knowledge and hands-on experience in data science, programming, full stack projects with java to contribute effectively to a dynamic IT team. Eager to apply problem-solving skills, adaptability, and a strong work ethic to drive innovation and deliver high-quality solutions in a collaborative environment.

EDUCATION

Bachelor's in Artificial Intelligence & Data Science   2020-2024 | Tirupathi, India
Annamacharya Institute of Technology & Sciences

Board Of Intermediate Education   2018-2020 | Nandyal, India
RAO'S Junior College
Percentage: 81.4l

Board Of Secondary Education   2017-2018 | Proddatur, India
S.K.G. Oriental High School
Percentage: 91.2

SKILLS

Languages	:	Python, Java
Databases	:	DBMS, SQL, MySQL
Web Technologies	:	HTML, CSS, Java Script
Python Libraries	:	Pandas, NumPy, Scikit-Learn, Matplotlib, Seaborn
Machine Learning	:	Linear Regression, Logistic Regression, Decision Trees, K-Nearest Neighbors (KNN), Naive Bayes
IDEs	:	Eclipse, Google Colab, Jupyter Notebook, IntelliJ IDEA
Operating Systems	:	Linux, Unix, Windows

PROJECTS

Predicting Urban Water Quality by Using Machine Learning

- Developed predictive models for forecasting urban water quality parameters as a college project.
- Gathered and processed diverse datasets to ensure data quality and integrity.
- Employed feature engineering techniques to enhance model performance and selected appropriate algorithms for predictive modelling.
- Trained models using cross-validation and hyperparameter tuning to optimize performance, evaluated using industry-standard metrics.
- Conducted thorough model evaluation and optimization using cross-validation and hyperparameter tuning.
- Collaborated with peers and faculty advisors throughout the project lifecycle, demonstrating effective teamwork and communication skills.

Environments: Python, pandas, NumPy, scikit-learn, Jupyter Notebook, Google Colab, AWS

Online Payment Fraud Detection

- Developed and implemented machine learning algorithms to detect and prevent online payment fraud, contributing to reducing financial losses and enhancing security measures.
- Gathered and processed extensive datasets containing transactional information to train and validate fraud detection models, ensuring data cleanliness and accuracy.
- Utilized advanced feature engineering techniques to extract meaningful insights from transactional data, improving model performance and predictive accuracy.
- Employed various machine learning algorithms, such as logistic regression, decision trees, and ensemble methods, to build robust fraud detection models capable of identifying fraudulent patterns.
- Conducted model evaluation and optimization using cross-validation and hyperparameter tuning, achieving high detection rates, and minimizing false positives to enhance the efficiency of fraud prevention systems.

Environment: Python, pandas, NumPy, scikit-learn, Jupyter Notebook, Google Colab, SQL databases, Matplotlib, Seaborn, Git

INDIAN MATRIMONY | Marriage Matrimony Full Stack Project

- Developed HTML pages for various components of an Indian Matrimony website.
- Styled website layout and elements using CSS for consistency and aesthetics.
- Implemented client-side validation and interactive features with JavaScript.
- Utilized AJAX requests for dynamic content loading and enhanced user experience.
- Built backend server with Node.js and Express.js, handling HTTP requests and responses.
- Integrated MySQL database for efficient data storage and retrieval.
- Implemented user authentication and authorization using JWT tokens.
- Developed RESTful APIs for seamless interaction between frontend and backend.

Environment: HTML, CSS, JavaScript, Node.js, Express.js, MySQL, AJAX, JWT tokens

INTERNSHIP

Data Science virtual Internship   Jun 2023 – Jul 2023

- Completed a virtual internship in data science, gaining hands-on experience in real-world projects and industry-standard practices.
- Applied statistical analysis and machine learning techniques to analyse large datasets and derive actionable insights.
- Developed data preprocessing pipelines to clean, transform, and prepare raw data for analysis and modelling.
- Utilized Python programming language and libraries such as pandas, NumPy, and scikit-learn for data manipulation, analysis, and modelling tasks.
- Collaborated with cross-functional teams to define project objectives, gather requirements, and deliver data-driven solutions.
- Presented findings and recommendations to stakeholders through reports, presentations, and data visualizations.
- Demonstrated strong problem-solving skills and adaptability in navigating virtual work environments and effectively managing remote collaboration.
- Received positive feedback and recognition for contributions to project outcomes and team success during the virtual internship.

INTERESTES

- Coding
- Travelling
- Exploring new things

CERTRIFICATES

- NPTEL: The Joy of Computing Using Python
- Introduction to AI
- Microsoft Certified Azure Data Fundamentals
- APSSDC Web Development Using Django --Certificate of Participation
- APSSDC Python Programming --Certificate of Participation