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| **LAKSHMI CHERITHA RACHAMREDDY**  **Phone**: +91 7036788532  **Email**: lakshmicharitha7051@gmail.com  **LinkedIn:** [**lakshmi-cheritha**](lakshmi-cheritha) | resume profile picture |

**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**

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| **Bachelor’s in Artificial Intelligence & Data Science**  *Annamacharya Institute of Technology & Sciences* | 2020-2024 | Tirupathi, India |
| **Board Of Intermediate Education**  *RAO'S Junior College*  *Percentage: 81.4l* | 2018-2020 | Nandyal, India |
| **Board Of Secondary Education**  *S.K.G. Oriental High School*  *Percentage: 91.2* | 2017-2018 | Proddatur, India |

**SKILLS**

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| 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**

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| * 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