

ALUKAPALLY NEHA REDDY

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Hyderabad, Telangana - India




PROFESSIONAL SUMMARY

Dedicated and detail-oriented Software Engineering student seeking a challenging position. I aim to leverage my skills in programming, problem-solving, and collaboration to contribute to innovative projects. I am eager to apply my knowledge of software engineer methodologies and work with a dynamic team in a growth-oriented organization. Committed to continuous learning and staying updated with the latest technologies in the ever-evolving fields of computer science and business.

EDUCATION

- Sharda University** 2021 - present
Bachelors of computer science and engineering
Greater Noida, Uttar Pradesh
◦ GPA: 8.8
- Sri Chaitanya Junior College** 2019-2021
Pre-University Education
Nizampet, Hyderabad
◦ GPA: 9.2
- SPR School of Excellence** 2018-2019
Secondary Education
Ghatkesar, Hyderabad
◦ GPA: 9.7

PROJECTS

- Stock Price Prediction** 2023 
Tools: [Python, LSTM, XGBoost, Random Forest, Machine learning]
◦ Developed a stock price prediction system for leveraging LSTM networks to capture temporal dependencies in sequential data.
◦ Implemented Random Forest and XGBoost models to compare performance and accuracy, achieving a comprehensive analysis of prediction models.
◦ Created data preprocessing pipelines, including scaling and sequence generation, ensuring robust input data for model training.
◦ Applied quantitative metrics such as Mean Squared Error and R-squared to evaluate model effectiveness, leading to informed model selection.
- Product sales data analysis** 2024 
Tools: [Power BI, Data Analysis, Data Visualization]
◦ Analyzed sales data to identify key factors affecting company performance, including profit by product and sales trends.
◦ Connected and cleaned Microsoft's sample dataset in Power BI Desktop to filter out irrelevant data before analysis.
◦ Designed interactive dashboards utilizing Power BI visualizations like Pie Charts, Bar Charts, and Funnel Charts to effectively present insights.
◦ Exported and shared actionable insights through visual dashboards, enabling data-driven decision-making for business performance improvement.
- Restaurants Profit maximization using machine learning algorithms** 2024 
Tools: [Python, Random Forest, XGBoost, KNN, SVM, Machine Learning]
◦ Developed machine learning models to predict peak hours, reduce food waste, and forecast revenue, utilizing a restaurant sales dataset with features like weather, reservations, and customer behavior.
◦ Implemented Random Forest, XGBoost, KNN, and SVM algorithms, with XGBoost achieving superior performance for peak hour prediction and demand forecasting with RMSE of 4.96 and R² of 0.99.
◦ Conducted comprehensive data preprocessing, including handling missing values, outliers, and feature encoding, alongside effective feature selection using correlation analysis and Random Forest importance metrics.
◦ Evaluated model performance using RMSE and R² metrics, providing actionable insights for optimizing labor scheduling and minimizing food waste.

SKILLS

- **Programming Languages:** C, Java, Python, SQL
- **Web Technologies:** HTML, CSS, Java Script
- **Frameworks:** Pandas, NumPy, Matplotlib, Scikit-Learn, Seaborn, machine learning, deep learning
- **Tools:** Power BI, Tableau, Excel, MySQL, Data analysis, Data visualization
- **Platforms:** Jupyter Notebook, Git, Google Colab, Visual Studio Code
- **Soft Skills:** Strategic thinking , Problem Solving, Teamwork, Time Management, Leadership , Effective Communication Critical Thinking, Visualization skills
- **Data Structures & algorithms**
- **Statistics**

CERTIFICATIONS

- **Java Programming Certificate from Oracle**
- **Database Programming with SQL**
- **Project Management Certificate from NPTEL**
- **Oasis Infobyte Internship certificate of completion**

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ACHIVEMENTS

- Published paper in IEEE international conference with project name "**SIGN LANGUAGE TRANSLATOR: A COMPARATIVE ANALYSIS OF DEEP LEARNING AND MACHINE LEARNING MODELS**"
- Published paper in a IEEE conference with paper name "**RESTAURANTS PROFIT MAXIMIZATION WITH MACHINE LEARNING MODELS**"
- Volunteered in a hackathon and earned a badge for participation
- Earned a badge in AWS for completing a course called AWS academy cloud foundations.
- Participated in bootcamp for month in sharda university based on machine learning.

ADDITIONAL INFORMATION

Languages: English, Telugu, Hindi.