Rakshith KS
Software Engineer

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Place: Sakleshpur, Hassan, Karnataka

Objective

Experienced Software Engineer with a strong background in data engineering and software development. Demonstrated expertise in constructing scalable data pipelines, enhancing database performance, and implementing machine learning models.

Education

Rajeev Institute of Technology, Hassan, Karnataka Bachelor of Engineering,
Electronics and Communication

Work Experience

Actalent Services PVT LTD, NS Palya BTM, Bengaluru.

Software Engineer – April 2021 to Present

- **Model Development and Optimization:** Enhance predictive models for better accuracy and performance.
- **Data Pipeline Construction**: Build and maintain efficient data pipelines.
- **Algorithm Implementation:** Develop algorithms for data analysis and machine learning.
- **Data Integration:** Combine data from various sources into comprehensive datasets.
- **Performance Monitoring:** Monitor and optimize data models and systems.

Test Yantra Software Solutions, Basavanagudi, Bengaluru.

Data Science Engineer – July 2019 to April 2021

- **Model Development:** Designed, developed, and deployed machine learning models to solve complex business problems.
- **Data Analysis and Visualization:** Analyzed large datasets to extract insights and created visualizations to communicate findings.
- **Feature Engineering:** Performed feature engineering to enhance model performance and accuracy.
- **Collaboration and Documentation:** Collaborated with cross-functional teams to understand requirements and documented processes and models for reproducibility.

Skills / IT Skills

Programming:

- Python
- Data Modeling
- SQL
- PySpark
- GCP
- Machine Learning
- Pandas
- Image Processing
- ETL Pipeline
- FastAPI
- Django
- NumPy
- TensorFlow
- NoSQL
- HTML/CSS
- Matplotlib
- Open CV
- Data Quality

Tools:

- Pycharm
- Confluence
- Android Studio
- Jira
- Bit Bucket
- Fire Base
- Git
- Rally
- PostgreSQL
- Google Colab
- Linux
- Visual Studio Code
- Jupyter Notebook

Interpersonal Skills:

Communication Skills: Being able to explain complex technical concepts in simple terms to non-technical stakeholders is essential. This includes both verbal and written communication.
Problem-Solving and Critical Thinking: Data engineers often face complex challenges that require innovative solutions. Critical thinking helps in analyzing problems and devising effective strategies.
Adaptability: The tech landscape is constantly evolving. Being adaptable and open to learning new tools and technologies are vital.
Teamwork and Collaboration: Data engineers often work in teams with data scientists, analysts, and other IT

professionals. Good teamwork and the ability to collaborate effectively are important.
Time Management: Managing multiple tasks and projects efficiently is crucial. Good time management skills help in meeting deadlines and maintaining productivity.
Attention to Detail: Ensuring data accuracy and integrity requires a keen eye for detail. This helps in minimizing errors and maintaining high-quality data

Projects

Elster Honeywell – Meters (Electric, Gas and Water) Usage Prediction:

- Creating a predictive model to estimate future meter usage using historical data.
- Utilizing previous meter usage data provided by Honeywell.
- Performing exploratory data analysis to uncover trends and patterns.
- Developing and accessing a machine learning model that achieves 80% accuracy to forecast meter usage.
- Raising tickets in Jira for any issues that arise.

Technologies and Tools:
Python, Pandas, Scikit-learn, Machine Learning, SQL, Matplotlib, Jira

Employee Efficiency Tracking:

- Monitored and analyzed employee efficiency by tracking key performance metrics.
- Established key performance indicators (KPIs) such as tasks completed, code quality, and bug resolution time.
- Gathered and preprocessed data from project management tools, code repositories, and time tracking systems.
- Conducted exploratory data analysis to identify trends and patterns.
- Analyzed efficiency metrics using statistical methods and machine learning algorithms, achieving 83% accuracy.
- Developed dashboards and reports to visualize metrics and provide actionable insights.
- Implemented a feedback loop for continuous improvement.

Technologies and Tools:
Python, Pandas, Machine Learning , SQL, Matplotlib, Tableau, Jira, GitHub

Training Institute (Student) Data Validation and Prediction:

- Worked as a Data Science Engineer, Responsible for cleaning, analyzing, visualizing, modelling and prediction to meet the business requirement.
- Worked on **Students Data for Training Institution** to analyze and predict the data of courses and placement for the students.
- Using **Python**, **Pandas and Machine Learning Algorithms** to read, analyze and predict the data,also **Matplotlib** for visualization purposes.
- Analyzed the data based on student's higher study percentage, course taken to recommend the suitable course to take for better opportunity.
- Fit the models and achieved nearly 82% of accuracy**.**

Technologies and Tools:
Python, Machine Learning Algorithms, Scikit Learn, Pandas, Matplotlib, Jupyter Notebook, Google Colab.

Recruitment Data (Job data) from Indeed and Naukari:

- Worked on the **Jobs** Data Provided by both the companies.
- Data contains Job Posted, Company Name, Company Rating, Reviews given by the users, Required Experience, Salary offered for that corresponding job, Job Location, Job Description and Required Skill for that job
- Analyzed the data based on these features and did some pre-processing like finding the NaN values and out layers, replaced NaN values and dropped the out layers for accurate prediction.
- Plotted some visualization graphs to represent the data in more understandable way to the customer.
- Applied ML algorithms and achieved 91% of accuracy.

Technologies and Tools:
Python, Machine Learning Algorithms, Scikit Learn, Pandas, Matplotlib, Jupyter Notebook, Google Colab.