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SUMMARY

• Proficiency in SQL for querying, data extraction, and manipulation.
• Proficiency in programming languages such as Java and Python.
• Knowledge with large data technologies like Spark and Hadoop.
• A basic knowledge of cloud computing systems such as Azure, Google Cloud, and Amazon.
• Proven track record in relational and non-relational database design and implementation.
• Knowledge of query optimization, indexing, and data normalization.
• A desire to learn new techniques and technology with enthusiasm.

TECHNICAL SKILLS

Languages: Java, Python, HTML5, Scala
Libraries and Frameworks: Pandas, NumPy, SciPy, Scikit-Learn, PyTorch, Flask
Big Data Technologies: Hadoop, HDFS, Spark
Continuous Integration and Deployment: Maven, Azure DevOps
Development Tools and IDEs: IntelliJ IDEA, Eclipse
Version Control: Git, GitHub
Testing Frameworks: PyUnit, PyTest
Database Technologies: MySQL, Oracle
Project Management and Collaboration: Agile/Scrum methodologies
Certifications: Oracle Java

Work Experience

Aug 2022 – Dec 2023 | Compass Group, Texas
Java full Stack Developer
• Developed and maintained end-to-end features for a telecom billing system using Java (Spring Boot) for backend and Angular/React for frontend.
• Designed and implemented RESTful APIs for billing, invoicing, and customer account management modules.
• Built and optimized complex SQL queries and integrated with MySQL/Oracle databases for retrieving and storing billing data.
• Implemented authentication and role-based access control for secure access to sensitive billing information.
• Created responsive and interactive UI components for billing dashboards, reports, and payment history using HTML5, CSS3, JavaScript, and Angular.
• Used Apache Kafka for asynchronous event-driven processing of billing transactions and notifications.
• Integrated third-party payment gateways (e.g., Stripe, PayPal) and ensured proper handling of payment retries and failures.
• Participated in Agile ceremonies, wrote unit/integration tests using JUnit & Mockito, and used Jenkins for CI/CD deployments.

July 2021 – June 2022 | Tata Consultancy Services, INDIA
Assistant System Engineer
• Created thorough test cases and strategies that addressed every functional and non-functional requirement.
• Performed extensive manual testing, including user acceptability testing (UAT), functional, regression, and integration testing.
• Closely worked with development teams to comprehend new features and possible areas of effect so that focused testing could be conducted.
• Throughout the testing lifecycle, issues were tracked, managed, and recorded using defect tracking software such as JIRA or Bugzilla.
• Investigated the underlying causes of issues found to make sure they were fixed and avoided in next editions.
• To guarantee constant test coverage throughout time, a thorough test suite was created and maintained.
• Led developers in frequent testing feedback meetings to offer ideas and insights for enhancing code quality.
• To detect possible problems early on, I made sure all test environments were appropriately configured and replicated production settings.
• Test protocols, outcomes, and best practices were recorded to facilitate knowledge sharing and boost team productivity.
• Test strategies were revised and reviewed on a regular basis to accommodate new tools, technologies, and project needs.

April 2020 – June 2020 | Knowledge Solution, INDIA
Machine Learning Engineer
• Designed a machine learning project with the goal of categorizing the existence of heart disease using a range of health indicators.
• Sought to enhance cardiac illness early detection via predictive modeling.
• Used a variety of machine learning techniques, such as Support Vector Machine (SVM) and K-Nearest Neighbors (KNN) for categorization.
• Used Principal Component Analysis (PCA) to minimize dimensionality to improve computational efficiency and improve model performance.
• Gathered an extensive dataset of patient health parameters, including age, blood pressure, cholesterol, and so on.
• Prepared the dataset for modeling by performing data cleansing, standardization, and handling of missing values.
• Performed exploratory data analysis (EDA) to comprehend the distribution of data, spot trends, and illustrate the connections between characteristics and the goal variable.
• For data processing and visualization, Python libraries such as pandas, matplotlib, and seaborn were utilized.
• Divide the dataset into testing and training sets to precisely assess the performance of the model.
• Using grid search and cross-validation approaches, KNN and SVM models were trained on the training set, and hyperparameters were tuned.
• Measures including accuracy, precision, recall, and F1-score were used to assess the performance of the model.
• Used PCA to cut down on features without sacrificing the most crucial data.

• Evaluated how PCA affected computing efficiency and model correctness.
• Python was the main programming language used to implement the models for machine learning.
• Package management and dependencies were streamlined by using Anaconda as the environment manager.
• Jupyter Notebooks were used in the project's development and documentation to provide code, analysis, and findings in an understandable and interactive manner.
The effectiveness of KNN and SVM models in identifying heart disease was compared, and their advantages and disadvantages were examined.
• Based on assessment measures and general robustness, the top-performing model was chosen.
• Completed documentation of the project's workflow, including data preparation, training, and assessment.
Developed comprehensive reports and infographics to showcase the project's discoveries and understandings.
• Draw attention to how the initiative can enhance heart disease early detection, which might improve patient outcomes.
• Defined potential improvement opportunities, including adding more sophisticated machine learning methods, growing the dataset, and adding new health measures.

Jan 2020 - June 2020 | EPAM Systems, India
EPAM Pep
• Took part in the Professional Excellence Program (PEP) offered by EPAM, which concentrated on advanced software development techniques.
• Used concepts like OCP, DIP, and SRP to improve the flexibility and maintainability of the code.
• Used design patterns like MVC, Factory Method, and Singleton to encourage scalable and reusable programming.
• Created responsive and dynamic user interfaces with JavaScript, HTML5, CSS3, and React.js.
• To produce reliable and modular code, encapsulation, inheritance, and polymorphism were used in the design and implementation of classes and objects.
• A better user experiences thanks to effective state management and front-end development.
• Higher code quality and more efficient projects due to adherence to design patterns and principles.
• Made a significant contribution to the project's success via efficient teamwork, continuous integration (CI/CD), and version control (Git).

Education

Master of Science in Computer Science, University of Texas at Arlington *Jan 2022 – May 2024*

Bachelor of Technology (Computer Science & Engineering), Malla Reddy Engineering College for Women, India *July 2017 – JULY 2021*

Achievements

• MRECW Future Sastra 2K18: Received first prize in BRAINY OF JAVA.
• J-HUB Hackathon: Received first prize in J-HUB Hackathon organized in MALLAREDDY Engineering College for Women.

• J-HUB Excite Program: Got fourth place in J-HUB Excite program organized by J-HUB, JNTUH.

Academic Projects

Stroke Prediction Using Machine Learning

• The project focuses on stroke prediction using a preprocessed dataset devoid of missing values. Machine learning algorithms are employed, and their outputs are measured for accuracy.
• Two classification algorithms, Support Vector Machine (SVM) and Random Forest, are employed for predictive modeling.
• Skills: Anaconda, PyTorch, Jupyter, Python (Programming Language)

Heart Disease Classification Using Machine Learning

• The primary goal is to evaluate results from existing methodologies in heart disease classification. The project utilizes Python and pandas operations for data analysis and predictive analytics using machine learning.
• Skills: Anaconda, PyTorch, Jupyter, Python (Programming Language)