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PROFILE

Senior Software Engineer and Data Scientist with over 5 years of experience in software development, machine learning, and AI. Skilled in Python development, REST APIs, microservice architecture, and containerization with Docker and Kubernetes. Proficient in relational databases, particularly PostgreSQL, and experienced in designing concurrent and distributed systems. Strong understanding of the full software development lifecycle, with a focus on feature development, system evaluation, and team collaboration.

EDUCATION & QUALIFICATIONS

Macquarie University – Master of Science in Data Science 2022-2024

GLA University – Bachelor of Technology in Computer Science and Engineering 2011-2015

TECHNICAL SKILLS & AREA OF EXPERTISE

**Programming Languages**: Python, SQL, R, PySpark

**Software Development**: REST APIs, Microservices, Docker, Kubernetes, Git, CI/CD Pipelines

**Databases**: PostgreSQL, MongoDB, Neo4j

**Data Engineering** **& Big Data**: Data Pipeline Automation, DataOps, DevOps, CI/CD

**Machine Learning & AI**: Regression, Classification, NLP, Transformers, CNNs, BERT

**Cloud Technologies**: AWS (Sagemaker, S3), Azure (Databricks, Data Factory), GCP

**Data Analysis & Visualization**: Excel, Power BI, Matplotlib, Seaborn, Tableau

**PROJECTS**

**User Liveness Detection | Truuth**

* Developed microservices for integrating liveness detection models into existing app architecture using AWS Sagemaker.
* Collaborated with site reliability engineers to ensure the scalability and reliability of deployed solutions.

**Edison Health Link (EHL) Platform | Infinite Computer Solutions**

* Developed REST APIs for medical image analysis models, integrating them with existing imaging systems for real-time insights.
* Used Docker and Kubernetes for containerization and orchestration of the models.

**Predictive Modelling for Evacuation Risk Assessment | Tetra Soft India**

* Designed and developed microservice-based predictive models to assess evacuation risks, utilizing SQL for data extraction and analysis.
* Automated data pipelines to enhance the scalability and reliability of the system.

**Sentiment Analysis with BERT Model | HCL Technologies**

* Developed a BERT model for sentiment analysis, implemented as a REST API for user reviews and feedback.
* Utilized Docker and Kubernetes for containerization and deployment, ensuring scalability and high availability.

PROFFESIONAL EXPERIENCE

**ML Engineer** – Intern | Truuth July 2023 to Nov 2023

* Collaborated in designing and developing machine learning models, enhancing product scalability and robustness through Generative AI techniques.
* Worked with site reliability engineers to deploy models using AWS Sagemaker, ensuring efficiency and reliability.
* Managed software through the full development lifecycle, including structured design, unit testing, and deployment.

**Data Scientist** | Infinite Computer Solutions (India) Limited Aug 2021 to Dec 2021

* Developed REST APIs for integrating deep learning models for medical image analysis on the Edison Health Link (EHL) Platform.
* Collaborated with middleware and frontend teams to introduce new customer-facing features.
* Conducted system evaluations and recommended updates to enhance model performance and scalability.

**Data Scientist** | Tetra Soft India PVT. Ltd. Dec 2020 to Jul 2021

* Designed and implemented microservice-based solutions for data migration and warehousing projects.
* Automated data pipelines using Azure Data Factory and Databricks, enhancing data integration and storage solutions.
* Worked with relational databases for efficient data extraction and analysis.

**Senior Software Developer** | HCL Technologies Aug 2016 to Nov 2020

* Developed and deployed software solutions across various domains, including text-based sentiment analysis using BERT models.
* Engineered concurrent and distributed systems, using microservice architecture and containerization (Docker, Kubernetes).
* Participated in code reviews, contributed to development standards, and provided technical guidance to team members.

**KEY QUALIFICATIONS**

* Over 5 years of professional experience in Python development, including building and deploying software features.
* Strong understanding of REST APIs, microservice architecture, and containerization using Docker and Kubernetes.
* Proficient in designing concurrent and distributed systems with a focus on performance and scalability.
* Experienced in the full software development lifecycle, from structured design to deployment and production maintenance.