Aiswarya Kattappilly Ravi

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Professional Summary

Dynamic and results-oriented Software Engineer with a Master's degree in Artificial Intelligence and Machine Learning. Possess nearly three years of hands-on experience in backend development, API integrations, and machine learning. Adept at working in Agile/Scrum environments, quickly adapting to new technologies, and delivering high-quality solutions. Highly committed to continuous learning and innovation, with a strong focus on backend development, data science, and AI.

Skills & Attributes

- Java
- Spring Boot
- RESTful APIs
- Spring MVC

- Swagger
- POSTMAN
- Hibernate
- MongoDB

- AWS/ Azure
- Docker
- Liferay
- JUnit

- JMeter
- HTML
- JSON
- JavaScript

- Python
- Pandas
- TensorFlow
- PyTorch

- NumPy
- Keras
- scikit-learn
- Power BI

- GitLab/Github
- Confluence
- Problem Solving
- Technical Documentation

- Team Work
- Fast Learner
- Self-driven
- Microsoft Teams

Work Experience

Seidor Opentrends, India | Associate Software Engineer   **Jan 2020 – Sep 2022**

- Developed micro services and RESTful APIs using Java Spring Boot and Spring MVC.
- Integrated third-party APIs and managed efficient data retrieval.
- Performed unit, system, integration, security, and performance testing using JMeter.
- Documented technical specifications and maintained project reports.
- Actively participated in Agile/Scrum ceremonies and collaborated across departments.
- Supported production environments by promptly identifying and fixing issues.
- Worked on data ingestion, transformation processes, and AI model implementation.

Technical Projects

- **DDC Accessioning:**   Enhanced diagnostic testing processes by developing modules with Java Spring Boot.

- **Seat Reservation App:**   Built an office seat reservation system for COVID-19 safety protocols.

- **Open Fit Challenge:**   Independently developed a Liferay application promoting employee fitness.

- **Visualization POC:**   Designed 50+ resource analysis graphs using Python and data visualization libraries.

- **College Chatbot:** Created an AI-based Chatbot to handle student inquiries and administrative tasks.

Academic Projects

- **Emotion-Based Music Recommendation System:** Designed a music player that detects user emotions through facial expressions and suggests songs accordingly. Implemented emotion recognition using ML and DL techniques.
- **Bird Species Classification:** Classified bird species using both deep learning and machine learning techniques. Used bird images for deep learning (CNN-based models) and bird type features (e.g., beak shape, wing span) for machine learning models. Focused on feature extraction, model accuracy, and comparative performance analysis.
- **Higgs Boson Particle Classification:** Built advanced ML models to classify Higgs Boson particles using CERN dataset. Focused on feature engineering, hyper parameter tuning, and model performance.
- **Audio Classification System:** Developed a classifier using ML techniques to label audio files from a curated dataset. Preprocessing included noise reduction, feature extraction (MFCC), and model training.

Education

MSc in Artificial Intelligence and Machine Learning   **2024**
Liverpool John Moores University, Liverpool, United Kingdom

Master of Computer Applications   **2020**
Mahatma Gandhi University, India

Bachelor of Computer Applications   **2018**
Mahatma Gandhi University, India

Work Excellences & Main Attributes

- Proficient in back-end development using Java, Spring Boot, Hibernate.
- Experienced in RESTful API design and integration.
- Skilled in CI/CD pipelines using GitHub Actions, Jenkins.
- Experience with cloud platforms like AWS, GCP, and Azure.
- Strong foundation in machine learning model development and data visualization.
- Expertise in unit and performance testing using JUnit and JMeter.
- Good knowledge of containerization tools such as Docker.
- Ability to work efficiently in Agile/Scrum frameworks and cross-functional teams.
- Proficient in data visualization using Power BI, Matplotlib, and Seaborn for insights and reporting.
- Experience with data preprocessing, feature engineering, and model optimization for real-world datasets.
- Awarded "Star Employee of the Month" for outstanding contributions.
- Recognized for academic excellence with a First Rank at Mahatma Gandhi University.

Professional References Available on Request