James Nithil V

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Objective

Software Developer with 6+ months internship experience in Java backend development, machine learning, and data analytics. Proven expertise in REST APIs and scalable applications with 20% performance optimization. Led teams to national hackathon success. Immediately available for Software Development Engineer & Backend Developer roles.

Technical Skills

Programming Languages: Java (Advanced), Python, C++, SQL, JavaScript

Frontend Technologies: HTML5, CSS3, React.js, Three.js, DOM Manipulation

Frameworks & Tools: Spring Boot, Hibernate, JDBC, Flask, REST APIs, Git, Maven, Power BI

AI/ML & Generative AI: scikit-learn, Pandas, NumPy, Matplotlib, TensorFlow, Keras, CNN, LLMs, RAG, GenAI

Databases: MySQL

Development Tools: Eclipse IDE, VS Code, GitHub, Agile Methodologies

Education

Knowledge Institute of Technology, B.Tech in Artificial Intelligence and Data Science, Salem — 2021 – 2025

- CGPA: 7.9/10

St. Mary's Matric Higher Secondary School, Higher Secondary Certificate (+2) — 2020 – 2021

- Percentage: 84%

St. Mary's Matric Higher Secondary School, Secondary School Leaving Certificate (SSLC) — 2018 – 2019

- Percentage: 74%

Professional Experience

Data Analytics & Visualization Intern, Accenture — Nov 2023 – May 2024

- Analyzed 10,000+ records using Pandas and NumPy, extracting key business insights and performance trends
- Optimized data processing pipelines by 20%, reducing report generation time from 4 hours to 3.2 hours
- Designed interactive dashboards in Power BI and created data visualizations using Matplotlib
- Presented analytical findings to senior stakeholders and automated reporting processes for 5+ departments
- Collaborated with cross-functional teams using Agile methodologies to deliver data-driven solutions

Data Science Intern, Spreadtech Solutions — Nov 2023 – Dec 2023

- Developed spam detection system using machine learning algorithms, achieving 92% accuracy on email classification
- Built house price prediction model using regression techniques and feature engineering on real estate datasets
- Implemented data preprocessing pipelines and performed exploratory data analysis on large datasets
- Deployed ML models using Flask framework with REST API endpoints for real-time predictions
- Collaborated with senior data scientists to optimize model performance and reduce prediction errors by 15%

Projects

Scalable Cab Booking System Java, MySQL

- Architected and developed a multi-threaded backend system handling 100+ concurrent ride requests
- Implemented efficient driver allocation algorithm reducing average wait time by 30%
- Designed modular microservices architecture with separate booking, payment, and trip management services
- Integrated MySQL database with optimized queries, achieving sub-200ms response times
- Applied object-oriented design patterns (Factory, Observer) ensuring maintainable and scalable code

FarmVista - Plant Disease Prediction System Python, Flask, CNN

- Developed AI-powered plant disease detection system using Convolutional Neural Networks (CNN) with 94% accuracy
- Built Flask-based web application with REST API endpoints for real-time image analysis and disease classification
- Trained deep learning model on 20,000+ plant images across 15+ disease categories using TensorFlow/Keras
- Implemented image preprocessing pipeline with data augmentation techniques to improve model robustness
- Created user-friendly interface allowing farmers to upload plant photos and receive instant disease diagnosis with treatment recommendations

Real-Time Disease Prediction System Python, Flask, ML

- Built end-to-end ML solution using Random Forest algorithm on healthcare datasets (5,000+ samples)
- Developed RESTful APIs with Flask for real-time symptom analysis and disease prediction
- Achieved 87% prediction accuracy through feature engineering and hyperparameter tuning
- Created interactive web interface and data visualization dashboards using Matplotlib
- Implemented model validation and testing procedures ensuring reliable medical predictions

Certifications

- **Core Java & SQL Certification** - EBox: Advanced Java programming concepts, OOP principles, and MySQL database management
- **MySQL Database Certification** - IBM: Database design, query optimization, and performance tuning
- **Machine Learning Certification** - Simply Learn: Supervised learning algorithms, data preprocessing, and model evaluation
- **Deep Learning using PyTorch** - Guvi: Neural network fundamentals, CNNs, RNNs, transfer learning, and hands-on PyTorch implementation

Achievements & Leadership

- **Smart India Hackathon 2024 - Team Leader:** Led cross-functional team of 5 developers to national top-10 finish, developing innovative data-driven solution
- **LeetCode Problem Solver:** Solved 200+ coding problems, ranking in top 30% of Java developers globally (leetcode.com/u/NITHIL07)