Vijay Jagdale

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Professional Summary

A software engineer with strong fundamentals in Java, Python, and SQL with strong fundamentals in Data Structures, Algorithms, and Database Management. Having experience developing scalable machine learning solutions during an internship at BARC, applying deep learning and computer vision techniques. Passionate about building high-quality software products and solving real-world challenges through technology.

Education

Master of Computer Application MIT-World Peace University, Pune
Relevant Coursework: Machine Learning, Data Structures, Algorithms, Java ,Python

Bachelor of Science in Information Technology Vidyalankar School of Information Technology, Mumbai
Relevant Coursework: Operating Systems, Networking, DBMS, Linux

Skills

Technical Skills: Machine Learning, Computer Vision, Web Development, Software Testing
Programming Languages: Python, Java, C++, HTML/CSS, JavaScript, SQL, Linux
Fundamentals: Operating Systems, Networking, OOPS, DBMS, Data Structures, Algorithms
Soft Skills: Teamwork, Leadership, Communication, Problem Solving

Experience

Machine Learning Intern Bhabha Atomic Research Centre (BARC), Mumbai

- Designed and implemented a machine learning-driven defect detection system using Computer Vision (OpenCV) and Deep Learning to analyze real-time video feeds of industrial pipelines.
- Achieved 95% precision across 10,000+ frames by applying anomaly detection algorithms, and developed a frame-level timestamping mechanism that reduced manual inspection time by 30%.
- Deployed scalable solutions in collaboration with cross-functional teams, significantly enhancing operational safety and mitigating industrial hazards.

Projects

Crop Yield Prediction Model

- Developed a machine learning model using Python, Scikit-learn, Pandas, and NumPy on 10+ years of agricultural data, achieving 92% accuracy by engineering key features and applying advanced data preprocessing techniques (normalization, outlier removal, feature selection).
- Deployed the predictive framework to automate crop selection recommendations, demonstrating a potential 15% increase in yield and reducing manual decision-making for farmers.

HireEase Job Portal

- Developed a Java and MySQL-based job portal supporting 2+ user roles (job seekers and employers) with secure registration, login, and CRUD operations for job postings and applications using JDBC, achieving 95% query efficiency across 1000+ job records.
- Designed a relational database with 3+ normalized tables and applied modular architecture and object-oriented design principles, ensuring 100% data integrity and improving backend scalability and code reusability by 40%.

College Admission Predictor

- Developed a linear regression model using Python to predict college admission chances based on students' caste and academic marks, improving admission decision support.
- Created a user-friendly web-based application using Streamlit to allow users to input data and receive admission probability predictions dynamically.