Aryan Kumar

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Professional Summary

Detail-oriented and passionate Computer Science undergraduate (B.E. – 2026 batch) with a strong foundation in data structures, algorithms, and object-oriented programming. Experienced in developing scalable products using Java, Python, and Spring Boot, and applying machine learning techniques for real-world problem solving. Demonstrated ability to build, test, and deploy full-stack and backend solutions such as automated database schedulers, predictive analytics models, and AI-driven applications. Active GitHub contributor with a product-focused mindset, curious about system design, and driven to deliver clean, maintainable, and high-performance code aligned with modern software engineering principles.

Technical Skills

Programming Languages: Java, Python, C++, JavaScript
Core Competencies: Data Structures and Algorithms, Object-Oriented Design, Problem Solving, System Design, API Development
Frameworks & Tools: Spring Boot, Flask, TensorFlow, Streamlit, Scikit-learn, Docker, Git, Postman
Databases: MySQL, MongoDB, PostgreSQL
Cloud & Deployment: AWS (EC2, S3), Docker, CI/CD Pipelines
Developer Profiles: GitHub: arkrly, LeetCode: arkrly

Projects

NeuroMind | ***Python, TensorFlow, Streamlit, NumPy***

Developed a CNN-based Alzheimer's detection model using MRI datasets, achieving 87% accuracy with TensorFlow and Keras.

Built and deployed a Streamlit web application enabling real-time medical image classification and confidence visualization.

Enhanced model performance via hyperparameter tuning and experimentation with deeper network architectures.

LoanGuard | ***Python, Scikit-learn, Flask, Pandas***

Created an end-to-end machine learning solution predicting loan default risk using feature engineering and classification algorithms.

Integrated model into a Flask-based web interface for interactive financial risk assessment.

Achieved 92% AUC score through data preprocessing, parameter optimization, and ensemble model comparison.

DB-Sched | ***Python, SQL, Cron, Docker***

Engineered an automated database scheduling and maintenance tool to perform periodic backups, cleanups, and integrity checks.

Containerized the service with Docker and implemented configurable job scheduling via Cron for flexible deployment.

Reduced manual database maintenance time by 70% through automation and logging improvements.

Education

Centurion University of Technology and Management — Jul 2026
B.Tech in Computer Science; CGPA: 8.9 — *Bhubaneswar, India*

Al-Kabir Polytechnic — Jun 2023
Diploma in Computer Science; CGPA: 8.4 — *Jamshedpur, India*

D.B.M.S. Kadma High School — Jul 2020
Class X; 78% — *Jamshedpur, India*

Certifications

Open Source Connect India — Contributor (2025)
Prompt Engineering for ChatGPT — Vanderbilt University (2022)
C/C++ Programming — Spoken Tutorial, IIT Bombay (2021)