

ARNAV SHARMA

Computer Vision & AI Engineer

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Objective

Computer Vision and AI Engineer with hands-on experience in deep learning pipelines, real-time video analytics, and ML deployment. Skilled in Python, PyTorch, OpenCV, and YOLO-based object detection systems. Experienced in building end-to-end ML solutions from data ingestion to deployment with strong foundations in backend integration, cloud computing, and scalable system design.

Education

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| Harcourt Butler Technical University (HBTU) <i>B.Tech. in ECE; Minor in BA</i> | Kanpur, India <i>Graduation: 2026</i> |
| <ul style="list-style-type: none">• CGPA: 7.0/10• Relevant Coursework: AI, DSA, DBMS, OOP, Operating Systems, Computer Networks, Software Engineering | |

Technical and Soft Skills

- **Programming Languages:** Java, Python, JavaScript, SQL
- **AI / Machine Learning:** Deep Learning, Model Training, Feature Engineering, Hyperparameter Tuning, Model Evaluation, Data Preprocessing, Predictive Modeling, Model Deployment
- **Backend & Frameworks:** Spring Boot, REST APIs, Microservices, Hibernate, Backend Development, API Integration
- **ML/DL Libraries:** TensorFlow, Keras, Scikit-learn, XGBoost, PyTorch
- **Cloud & DevOps :** AWS, GCP, Cloud Computing, ETL Pipelines, PySpark, Data Warehousing, Kafka
- **Databases & Tools:** MySQL, MongoDB, Power BI, Tableau (familiar), Git, GitHub, Docker, Jupyter, Google Colab.
- **Development Practices:** Agile Methodology, SDLC, Version Control, Debugging, Unit Testing, Scalable Systems

EXPERIENCE

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| J.P. Morgan (Forage) ↗ <i>Role - Micro Internship</i> | September 2025 October 2025 |
| • Developed RESTful microservices using Java and Spring Boot, implementing CRUD APIs and service layers. | |
| • Applied object-oriented design, clean architecture, and participated in Agile ceremonies and code reviews. | |
| • Used Git-based version control and CI/CD pipelines for automated builds, testing, and deployment. | |
| Airports Authority of India ↗ | |
| <i>Role - Summer Intern</i> | |
| • Analyzed and processed 10,000+ operational data points, to support system performance monitoring. | |
| • Designed structured data workflows to detect anomalies and failure patterns. | |
| • Built real-time Power BI dashboards to enhance observability, enabling data-driven decisions. | |

PROJECTS

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| Drive Pay Management System – Full Stack Application ↗ Spring Boot, MySQL, React | December 2025 |
| • Built a full-stack payment management system using Java, Spring Boot, React, and RESTful APIs. | |
| • Developed secure modules for users, transactions, and reporting with MySQL integration. | |
| • Implemented input validation, exception handling, and layered architecture to improve system reliability. | |
| Amazon ML Challenge 2025 ↗ Python, PyTorch, XGBoost, TensorFlow | |
| • Engineered a scalable ML pipeline combining deep learning and XGBoost for structured data forecasting. | |
| • Optimized model performance through feature engineering and hyperparameter tuning, achieving 31.07% SMAPE. | |
| • Focused on system efficiency, reproducibility, and modular design. | |
| Heart Disease Prediction ↗ Scikit-learn, Pandas, Matplotlib | |
| • Designed end-to-end data processing and model evaluation workflows using Python and Scikit-learn. | |
| • Applied software engineering best practices for testing, validation, and performance analysis. | |

CERTIFICATIONS

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| • Oracle Cloud Infrastructure Certified Generative AI Professional | <i>Oct 2025</i> |
| • Oracle Cloud Infrastructure Certified Data Science Professional | <i>Oct 2025</i> |
| • Complete A.I. & Machine Learning, Data Science Bootcamp — Udemy | |
| • SQL - MySQL for Data Analytics and Business Intelligence — Udemy | |
| • Java Programming — Amigoscode | |

Achievements

- Solved 300+ coding problems on LeetCode, GeeksforGeeks, and HackerRank.
- Achieved LeetCode Rating: 1628
- **McKinsey Forward Program 2025:** Selected for a global professional development program.
- **Deloitte Virtual Internship (2025):** Executed Software Engineering micro-internship.