

# Aryadeep Varshney

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[LinkedIn](#) | [GitHub](#) | [LeetCode](#) | [CodeChef](#) | [HackerRank \(5 Star\)](#)

## Professional Summary

Final-year B.Tech CSE (AI) student with production experience building and deploying ML-powered web applications used by real users. Proficient in Java, Python, Spring Boot, Flask, and React.js with strong command over data structures, algorithms, and System Design Fundamentals. Solved **500+ DSA problems**. Seeking SDE or Full-Stack roles where I can contribute from day one.

## Experience

**Freelancer** | Outlier.ai

May 2025 – Present

- Engineered and optimised AI prompts across code generation, reasoning, and NLP tasks, improving model accuracy and response clarity by **90%**, validated across multiple task categories.
- Annotated **10,000+ structured and unstructured data samples** for supervised ML pipelines, reducing model error rates by **25%** and cutting retraining turnaround time significantly.
- Identified and resolved **50+ high-severity production edge cases**, improving output consistency and reducing regression failures in deployed AI systems.

## Projects

**CureGenix** | Python, Flask, Scikit-Learn, XGBoost, REST API, AWS

Live

- Built a full-stack disease-prediction web application using **Random Forest and XGBoost** classifiers, achieving **95% model accuracy** across 5+ disease categories and serving **100+ active users**.
- Engineered modular REST APIs with average response time **under 200 ms**; deployed on cloud infrastructure with **CI/CD pipeline** maintaining **99% uptime** over 3+ months in production.
- Implemented end-to-end ML pipeline: data preprocessing, feature engineering, model training, serialisation with Pickle, and Flask-based inference serving.

**InfoSnap** | Python, Flask, HuggingFace Transformers, Tesseract OCR

Live

- Developed an AI document-summarisation platform using transformer-based NLP models, supporting **15+ languages**, scanned PDF OCR via Tesseract, and one-click PDF export.
- Scaled platform to **100+ documents/month**; UI/UX redesign increased user adoption by **50%** within 60 days while sustaining **99% uptime**.
- Integrated asynchronous task handling to process large documents without blocking the main thread, improving perceived performance by **40%**.

**AlgoSpark** | React.js, TypeScript, Tailwind CSS

Live

- Built an interactive DSA visualisation platform covering **15+ algorithms** including sorting, graph traversal, trees, and dynamic programming with step-by-step animated walkthroughs.
- Architected reusable React and TypeScript component library with Tailwind CSS; fully responsive across devices, enabling **40% faster** iteration on new algorithm modules.
- Adopted by **200+ students** for coding interview preparation; deployed on Vercel with zero-downtime continuous deployment.

## Technical Skills

**Languages:** Java, Python, JavaScript, TypeScript, SQL, HTML5/CSS3

**Backend:** Spring Boot, Flask, REST APIs, JWT Authentication, Hibernate/JPA, Docker

**Frontend:** React.js, Tailwind CSS, Responsive and Component-Driven Design

**ML and AI:** Scikit-Learn, XGBoost, HuggingFace Transformers, Pandas, NumPy, Tesseract OCR

**Databases and Cloud:** MySQL, PostgreSQL, AWS (EC2, S3), Git, GitHub, Linux CLI

**Core CS:** Data Structures and Algorithms, OOP, DBMS, OS Fundamentals, System Design

## Education

**Pranveer Singh Institute of Technology**, Kanpur

2022 – 2026 (Expected)

B.Tech in Computer Science and Engineering (AI Specialisation) | CGPA: 7.8/10

**St. Joseph's Sr. Sec. School**, Kanpur

2019 – 2021

Class XII: 82% | Class X: 84%

## Achievements and Certifications

- Qualified **TCS Digital** via TCS NQT 2026; shortlisted in **Flipkart Grid 5.0 Round 1** among **90,000+** participants.
- Solved **500+ problems** on LeetCode, CodeChef and HackerRank; **5-Star** rated in Java and Python on HackerRank.
- Technical Co-Head**, Ignitia 2025 Tech Fest: led **20+ members**, driving **90% higher participation** year over year.
- Certifications:** AWS Cloud Practitioner (2026) | Probability and Statistics for ML – DeepLearning.AI (2025) | Google AI Essentials (2024) | Salesforce AgentBlazer Champion (2024)