ARHAAN GIRDHAR

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EDUCATION

Manipal Institute of Technology, Manipal **Aug 2022 - May 2026**

B.Tech in Computer Science and Engineering (AI & ML)

Relevant Courses : Operating Systems, Data Structures, Algorithms, Object Oriented Programming, Artificial Intelligence, Software Engineering, Machine Learning, Computer Vision, Deep Learning, Reinforcement Learning, Database Management, Parallel Programing, Web Development.

SKILL SUMMARY

Programming Languages: C, C++, Java, JavaScript, Python, SQL, NoSQL, HTML

Libraries: Matplotlib, NumPy, OpenCV, Pandas, PyTorch, Scikit-learn, SciPy, Selenium, OpenMPI , CUDA, Beautiful Soup, Keras

Frameworks: Bootstrap, Django, Flask, jQuery, Next.js, Node.js, React.js, Tailwind CSS

APIs & Web Services: RESTful APIs, FastAPI, GraphQL, JSON, XML, OAuth 2.0

Tools & Platforms: Azure, Git, JavaFX, Jupyter Notebook, MATLAB, Docker, Digital Ocean, AWS, Google Colab

WORK EXPERIENCE

Machine Learning Intern | Concur IP (A Questel Company) **May 2025 - Jul 2025**

- Built and deployed ML-assisted scraping pipelines that automated counterfeit monitoring across 20+ global platforms, enabling protection for 15+ brands and reducing manual review time by 75%.
- Implemented advanced filtering algorithms that improved detection accuracy by 40%, enabling quicker identification of IP violations, reducing false positives, and decreasing enforcement team response time by 30%.

Internship Trainee | Bharat Electronics Limited **Jun 2024 - Jul 2024**

- Optimized multiple JavaFX-based interfaces to optimize cybersecurity workflows, boosting operational efficiency by 25% and enhancing user experience across internal tools.
- Administered the management and performance of 20+ virtual machines, ensuring 99.9% system uptime and automating critical processes to cut manual intervention time by 35%.

Frontend Developer | Invisible Mechanics **Jan 2024 - Mar 2024**

- Programmed and deployed a responsive, component-based web interface using modern frameworks, increasing user engagement by 45% through improved UI performance and accessibility.
- Collaborated closely with backend engineers to optimize API consumption and frontend rendering, contributing to a 98% on-time delivery rate across sprints.

PROJECTS

Ceaser | Concur IP (A Questel Company) **May 2025 - Jul 2025**

- Developed an AI-driven brand protection platform with automated web scraping across 30+ global marketplaces and social platforms, incorporating logo detection, keyword filtering, and scalable backend infrastructure through cloud-based deployment.
- Engineered real-time dashboards and integrated machine learning inference pipelines, enabling sub-2s response time, visual counterfeit detection, and streamlined enforcement workflows across both web and browser extension applications.

Facial Recognition | Manipal Institute of Technology | **LINK** **Mar 2025 - May 2025**

- Implemented a real-time AI pipeline combining YOLOv8-based custom object detection and CNN-based facial emotion recognition (7-class classification) trained on 900+ annotated images achieving 96.8% mAP@0.5 and 98.5% precision across models.
- Spearheaded an end-to-end vision workflow with data preprocessing, Haar Cascade face extraction, OpenCV integration, and augmentation strategies, enabling accurate multi-task inference across live feeds and annotated datasets.

CERTIFICATIONS

- **Meta Backend Developer** | Meta | **LINK**
- **Introduction to Generative AI** | Google | **LINK**
- **Generative AI with Large Language Models** | AWS | **LINK**
- **Foundations of AI and Machine Learning** | Microsoft | **LINK**

ACHIEVEMENTS

- Co-authored a research paper on reinforcement learning for musculoskeletal modeling, applying AI to simulate human biomechanics.
- Acheived an All India Rank (AIR) of 171 in the MET competitive exam.
- Led cross-functional teams in 5+ international hackathons, including HackWithInfy, Bolt.new, and Adobe and many more.
- Conceptualized workshops on Python for IECSE Manipal , teaching 50+ student and increased club membership by 20 students.