



ARHAAN GIRDHAR

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EDUCATION

Manipal Institute of Technology, Manipal

Aug 2022 - Aug 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 (MySQL, PostgreSQL, SQLite)

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, Hadoop, Apache Spark, Tensorflow

APIs & Web Services: RESTful APIs, FastAPI, GraphQL, OAuth 2.0, AWS, WebSockets, Digital Ocean

Tools & Platforms: Azure, Git, JavaFX, Jupyter Notebook, MATLAB, Docker, Google Colab, Simulink, Excel (Advanced), PowerBI

WORK EXPERIENCE

Artificial Intelligence & 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%.
- Executed 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 custom JavaFX-based interfaces to handle cybersecurity workflows, boosting operational efficiency by 25% and enhancing team experience across internal tools.
- Perceived 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

IPMS Simulator | Personal Project

[LINK](#)

- Engineered a Python + SQL pipeline that migrated 7,500+ legacy records (clients, patents, trademarks, deadlines) from MySQL to PostgreSQL, enforcing schema, business, and referential integrity checks with complete audit logging.
- Programmed end-to-end data quality controls that standardized formats, eliminated duplicates, and reconciled cross-table references; surfaced and corrected inconsistencies, raising migration integrity to 95% and ensuring reliable downstream analytics.

Code Safe | HackWithInfy

[LINK](#)

- Developed an AI-powered security vulnerability scanner using OpenAI and Anthropic top models, implementing a full-stack Next.js application with Python backend to analyze codebases for critical vulnerability types (RCE, LFI, XSS, SQLI, SSRF, AFO, IDOR).
- Integrated advanced prompt engineering and LLM orchestration with confidence scoring algorithms to minimize false positives, achieving high-accuracy vulnerability detection with detailed exploits and remediation guidance for security applications.

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.
- Achieved 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+ students and increased club membership by 20 students.
- Delivered and hosted full-stack web applications for five freelance clients resulting in a client satisfaction score of 4.8/5.