ARHAAN GIRDHAR

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SKILL SUMMARY

Programming Languages: C, C++, Java, JavaScript, Python, MySQL, PostgreSQL

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, OAuth 2.0, AWS, WebSockets, Digital Ocean

Tools & Platforms: Azure, Git, JavaFX, Jupyter Notebook, MATLAB, Docker, Google Colab, Simulink

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.

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.*

PROJECTS

AI Customer Support SaaS | Personal Project | **LINK**   **Aug 2025 - Sept 2025**

- Built a multi-tenant SaaS platform providing intelligent chatbots, integrating custom tenant-specific training pipelines with RAG/fine-tuning, delivering context-aware, domain-specific answers in real time with <1s latency across multiple requests.
- Deployed Next.js dashboard for advanced sentiment tracking, automated FAQ clustering, and actionable conversation insights, containerizing microservices on Kubernetes with autoscaling and secure role-based access control for enterprise-level scalability.

Humanoid Movement Tracking | MIT Manipal Undergraduate Research| **LINK**   **Mar 2025 - May 2025**

- Implemented a cloud-enabled MuJoCo simulation pipeline in Python for real-time humanoid motion tracking with interactive 3D visualization capabilities and LSTM-based forecasting, training the model over 8 million steps across 30+ trajectories.
- Integrated SAC, A2C, and TD3 with an ε-greedy exploration strategy to optimize control policies, achieving high performance and enabling predictive movement assistance for people with disabilities, enabling robust real-world movement prediction.

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 **four freelance clients** resulting in a client satisfaction score of 4.8/5.