



# ARHAAN GIRDHAR

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## EDUCATION

- Manipal Institute of Technology, Manipal** **2022 - 2026**  
*B.Tech in Computer Science and Engineering ( AI & ML )* (Expected)  
*Relevant Courses* : Operating Systems, Data Structures, Algorithms, Object Oriented Programming, Artificial Intelligence, Machine Learning, Computer Vision, Deep Learning, Neural Networks, Database Management, Parallel Programing, Web Development.
- Delhi Public School Rajnagar, Ghaziabad** **2020 - 2022**  
*STD X & STD XII*

## SKILL SUMMARY

**Programming Languages:** C, C++, Python, Java, Javascript, MySQL, PostgreSQL

**Libraries:** NumPy, Pandas, Matplotlib, OpenCV, Scikit, SciPy, Pytorch, OpenMpi, Pytorch

**Tools:** HTML-5, CSS-3, JavaFX, Git, AWS, Docker, MATLAB, Jupyter Notebook, Azure, Microsoft Office

**Frameworks:** Tailwind CSS, ReactJS, NodeJS, Flask, Bootstrap, jQuery, Django

## WORK EXPERIENCE

- Internship Trainee | Bharat Electronics Limited** **Jun 2024 - Jul 2024**
  - Developed over five JavaFX interfaces, improving project efficiency by 25% in cybersecurity initiatives.
  - Managed over 20 virtual machines, ensuring a 99.9% system uptime for critical operations.
  - Reduced manual processing time by 35%, enhancing overall system reliability.
- Frontend Developer | Invisible Mechanics** **Jan 2024 - Mar 2024**
  - Engineered and deployed a reactive website, boosting user engagement by 45%.
  - Collaborated with backend teams to optimize performance, achieving a 98% on-time delivery rate.
  - Significantly enhanced the overall user experience.

## PROJECTS

- J.A.R.V.I.S | Think-a-thon | [LINK](#)** **Jan 2025 - Mar 2025**
  - Developed "J.A.R.V.I.S (Just A Really Versatile Interactive System)," a multi-language (20+) RL assistant enhancing productivity through 24/7 task automation.
  - Integrated advanced speech recognition and YOLOv8-based object detection for real-time visual assistance.
  - Implemented CNN-driven face authentication, supporting secure multi-user access (up to 4 users).
- Sentiment Analysis | Manipal Institute of Technology | [LINK](#)** **Sept 2024 - Oct 2024**
  - Engineered a real-time Twitter sentiment analysis pipeline using the Python Twitter API to process over 1M tweets daily, achieving sentiment classification with sub-5-second latency.
  - Developed a dynamic Next.js dashboard for real-time visualization of sentiment trends, enhancing decision-making with interactive, data-driven insights.

## CERTIFICATIONS

- Generative AI with Large Language Models | [LINK](#)** **Jan 2025**
  - Amazon Web Services | Covers concepts of Generative AI using LLMs, including model training and fine-tuning.
- Neural Networks and Deep Learning | [LINK](#)** **Dec 2024**
  - DeepLearning.AI | Focuses on deep learning principles, exploring neural networks and training techniques.
- Exploratory Data Analysis for Machine Learning | [LINK](#)** **Dec 2024**
  - IBM | Covers essential EDA techniques, including data cleaning, feature engineering, and preprocessing.