# Harsh Parikh

Munich,Bavaria,Germany | go36bin@mytum.de | LinkedIn | GitHub | Blog Posts Portfolio

## Education

**Technical University of Munich**, Munich, Germany                      2024 - 2026
M.Sc. Artificial Intelligence in Society,

**Nirma University**, Ahmedabad, India                      2019 - 2023
B.Tech in Instrumentation and Control with minors in Computer Engineering, 2023

## Work Experience

**Max Planck Institute for Software Systems**                      *Jan 2023 - Present*
*Software Developer*                      *Saarbrücken, Germany*

- Boosted model training time by 40% by developing a high-performance data-serving infrastructure for machine learning models.

- Achieved a 95% accuracy rate by designing and executing a proof-of-concept ML system prototype based on satellite images to detect land cover patterns.

- Enhanced cross-application consistency by engineering a comprehensive UI component library with Storybook, React, TypeScript, and Tailwind CSS, streamlining development processes.

**Cling Systems**                      *Apr 2023 - Sep 2023*
*Data Analyst*                      *Stockholm, Sweden*

- Improved prediction accuracy by 30% by building a model to determine the resale value of second-hand batteries.

- Streamlined production costs by 15% by integrating data analysis findings into product design processes through cross-functional team collaboration.

- Conducted a comprehensive analysis of 8 battery specifications, including cell voltage, cell chemistry, and battery density.

**Canadian Centre for Climate Change and Adaptation**                      *Jun 2022 - Nov 2022*
*Research Intern*                      *Charlottetown, Canada*

- Increased forecasting accuracy by 30% by fine-tuning Fbprophet and Gluon-ts forecasting algorithms for predicting groundwater levels.

- Enhanced data-cleaning efficiency by 45% by resolving data-cleaning scripts for sensor data.

- Instilled a robust data-driven approach to climate policy by partnering with the Govt. of Prince Edward Island on 2 field projects.

**Indian Institute of Management**                      *Jan 2022 - May 2022*
*Data Analyst*                      *Ahmedabad, Gujarat*

- Reduced data collection time by 40% by building an automated Python script for scraping CSR information from the Marketline database.

- Extracted CSR information for over 20 corporate companies daily by incorporating an efficient web scraping strategy using Beautifulsoup and NLTK libraries.

## Project Experience

**Swarm Robot Path Optimization**                      *Jan 2021 - Jun 2021*
*Research Project*                      *Ahmedabad, Gujarat*

- Designed the three most efficient algorithms for swarm robots to traverse between points.

- Received funding of 100,000 INR ( 1200 USD) from the Gujarat Council on Science and Technology (GUJCOST) for further research.

- Conducted over 500 simulations, testing the algorithms scalability and robustness across various environments.

**Insurjo - Product Management Cohort**
*Product Manager*

*Jan 2024 - Mar 2024*
*Ahmedabad, India*

- Identified market trends, strengths, and weaknesses to inform strategic decision-making and improve market positioning through in-depth analysis of 4 companies.
- Designed personalized onboarding experiences for 3 distinct user personas, using success metrics and A/B tests to improve user onboarding.
- Established a product-led growth strategy, recommending 2 areas for future growth to drive user acquisition and retention.

## Leadership Experience

**Canadian Society for Bioengineering**
*Volunteer*

*Jul 2022 - Jul 2022*
*Charlottetown, Canada*

- Coordinated logistics for the annual conference of the Canadian Society for Bioengineering, ensuring smooth operations and helping 50+ presenters find their designated rooms on time.
- Managed data entry tasks with a high degree of accuracy, entering over 150 attendees information into the system while adhering to strict confidentiality protocols.
- Supported the theme "Agricultural Sustainability and Food Security through Precision Agriculture Technologies" by researching relevant industry trends and providing valuable insights to attendees during networking breaks.

**Nirma Community Service**
*Volunteer*

*Dec 2019 - Dec 2022*
*Ahmedabad, Gujarat*

- Provided educational resources and support to 50 specially-abled children, ensuring continued learning during the lockdown period.
- Initiated and organized the "Act of Kindness" campaign, ensuring weekly trips to local slums to distribute food packages to children in need.

## Publications

**Parikh, H.**, Panchal, N., Sharma, A. (2023). Cryptocurrency Price Prediction Using Machine Learning. Proceedings of the 6th International Conference on Advance Computing and Intelligent Engineering. Lecture Notes in Networks and Systems, vol 428. Springer, Singapore. **(Published)**.

**Parikh, H.**, Padariya, K. V., Sharma, A. (2023). Price Prediction for Pharmaceutical Stocks During Covid-19 Pandemic. Proceedings of the International Conference on Applications of Machine Intelligence and Data Analytics (ICAMIDA 2022), 61-68. Atlantis Press. **(Published)**.

**Parikh, H.**, Saijwal, I., Panchal, N., Sharma, A. (2022). Autonomous Mobile Robot for Inventory Management in Retail Industry. Futuristic Trends in Networks and Computing Technologies. Lecture Notes in Electrical Engineering, vol 936. Springer, Singapore. **(Published)**.

**Parikh, H.**, Panchal, N., Patel, V., Sharma, A. K. (2024). American sign language classification using deep learning. International Journal of Biometrics, 16(6), 640-659. **(Published)**.

**Parikh, H.**, Afzal, H., Farooque, A. (2023). Hyperparameter tuning artificial intelligence models for groundwater level prediction, Water MDPI. **(Submitted)**.

**Parikh, H.**, Trivedi, M., Bindschaedler, L. (2023). Harnessing Data Augmentation for Disaster Detection. **(In preparation)**.

## Awards

- Ranked in the top 1 percentile in High-school state examination, granted a **Tuition Fee Waiver scholarship** for undergraduate studies.
- MITACS Globalink Research Internship award, with an **acceptance rate of 7%.**
- Secured the best undergraduate thesis award, ranking in the **top 5 out of 80 students**.
- Impact Fellowship from the Global Governance Initiative, with an **acceptance rate of 5%**.