

Harsh Himanshu Khilawala

(He/Him/His)

New York, NY 10038 | harsh.khilawala27careers@gmail.com | (551) 343-1066 | [LinkedIn](#) | [GitHub](#) | [Portfolio](#)

EDUCATION

Pace University, Seidenberg School of Computer Science and Information Systems New York, NY
Master of Science (MS) in Computer Science | **GPA: 3.74/4.0** May 2025

Charotar University of Science and Technology (CHARUSAT) Anand, Gujarat
Bachelor of Technology (B.Tech) in Computer Science and Engineering | **GPA: 8.9/10** May 2023

RELEVANT COURSEWORK

Engineering Mathematics (I & II) | Data Structures & Algorithms | Design & Analysis of Algorithms | Database Management Systems
| Artificial Intelligence | Machine Learning | Data Science & Analytics | Image Processing and Computer Vision

PROFESSIONAL EXPERIENCE

NeuroPSI, Paris Saclay Institute of Neuroscience – CNRS (French National Center for Scientific Research) Paris-Saclay, France
Student Intern May 2022 – July 2022

- Improved the code quality and robustness of PyNN, a Python package designed for simulating spiking neuronal network models. Conducted a comprehensive review of the PyNN codebase, identifying areas for enhancement.
- Contributed to enhancing the documentation of PyNN for the broader scientific community, to make PyNN more accessible to researchers worldwide.

University of Tokyo – Earthquake Research Institute (ERI) Tokyo, Japan
Research Intern October 2021 – March 2022

- Developed a method with MATLAB by using Trimmed Dimensionality Ratio Estimation algorithm to detect anomalies in the Global Navigation Satellite System time series data with **360,000+** data values associated with ground deformation due to geological phenomena such as slow earthquakes, volcanism, or water-level changes.

Google Summer of Code – International Neuroinformatic Coordinating Facility (INCF) Surat, India
Student Developer May 2021 – August 2021

- Developed Python script to generate MockData Class using a template to generate **1000+** data values due to the scarcity of real-world data.
- Developed a method to quantify the quality of CerebUnit's Validation tests via metrics such as Sensitivity, Specificity, Positive Predictive Value, Negative Predictive Value, and Level of Significance with 95% accuracy in predicting values.

TECHNICAL SKILLS

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

Database Management: PostgreSQL, MySQL, Oracle, MongoDB, AtlasDB

Libraries: Sci-kit Learn, Tensorflow, Keras, Numpy, Pandas, seaborn, SciPy, Matplotlib

Machine Learning Algorithms: Linear Regression, Logistic Regression, Decision Tree, Support Vector Machine, KNN, K-means, Random Forest, Naïve Bayes

ACADEMIC PROJECTS / PERSONAL PROJECTS

Projects - [Link](#) July 2019 – Present

- Developed a portfolio of multiple projects tackling real-world problems and fun learning.

AWARDS

Charotar University of Science and Technology - Certificate of Merit December 2019

- Secured **3rd Rank** out of 160 students at Institute level.

Ignite – Grand Prize Winner January 2020

- Won Coding Competition among undergraduate students at state level.

VOLUNTEERING

Oppia – Automated QA Team (Open Source) October 2020 – May 2021

- Fixed major bugs and flakes causing end-to-end tests to fail to improve code coverage and enhance efficiency.
- Performed monthly release testing to deliver error-free code.