

# Rusham Elahi

+92 302 6478867 | [elahirusham@gmail.com](mailto:elahirusham@gmail.com) | [linkedin.com/in/rushamElahi](https://linkedin.com/in/rushamElahi) | [dblp.org](https://dblp.org) | [github/rushammm](https://github.com/rushammm)

## EDUCATION

**Beaconhouse National University**, Lahore, Pakistan

*BSc Computer Science*

Sep 2021 - Jun 2025

**Roots Millennium Schools**, Gujranwala, Pakistan

*O-Levels & A-Levels*

Aug 2018 - Jun 2020

## EXPERIENCE

**SCIT CAIR**, Lahore, Pakistan

*AI Researcher*

Jan 2024 - Present

- Analyzed flood impact over 442,000 km<sup>2</sup> in Punjab and Sindh using satellite imagery and Google Earth Engine.
- Applied CNN and template matching to detect flood-affected schools and hospitals with high spatial accuracy.
- Performed intersection analysis using QGIS to identify infrastructure within flood-impacted zones.
- Supported disaster response planning through data-driven geospatial insights.

**Systems Limited**, Lahore, Pakistan

*Artificial Intelligence Intern*

Sep 2024 - Oct 2024

- Received hands-on training in implementing single-layer neural networks using TensorFlow.
- Gained experience in building multi-layer neural networks under the guidance of the AI team.

**Corbis Soft**, Lahore, Pakistan

*Software Development Intern*

Jun 2024 - Aug 2024

- Tested APIs using Postman, identifying redundant calls and optimizing response times, improving performance by over 5%; assisted in backend development and basic database tasks.

## RESEARCH AND PUBLICATIONS

**Data-Driven Healthcare Assessment** | *ICONIP24*

2024

- Published a paper in ICONIP24 on data-driven solutions for healthcare access.
- Identified at-risk communities and proposed strategies for healthcare equity.
- Implemented data-driven methodologies for universal health coverage.
- Paper link: [Data-Driven Approach to assess and identify gaps in health care setup in South Asia](#)

## PROJECTS

**LocatePro** | *NextJs, PostgreSQL, Google Earth Engine, Python, QGIS*

- Collected and processed a geospatial dataset of 12,000+ business locations across Lahore using satellite imagery.
- Engineered geospatial features and trained an XGBoost model with 80% accuracy to predict optimal business locations.
- Built a Next.js demo website to visualize predictions based on latitude and longitude input. [LocatePro \(live\)](#)

**Placify – Internship Management Platform** *Full Stack Developer*

- Built with the **T3 Stack** (Next.js, TypeScript, Tailwind CSS, Drizzle ORM, PostgreSQL) to streamline internships for students, companies, and universities.
- Implemented role-based auth, dashboards, application tracking, and deployed on **Vercel**. [Placify \(live\)](#)

## TECHNICAL SKILLS

**Languages & Frameworks:** Python, C++, SQL, JavaScript, PHP, GO, NextJs, pandas, NumPy, Matplotlib, Tensorflow, Pytorch

**Developer Tools:** Github, Google Earth Engine (GEE), QGIS, Tableau, Figma, MS Office, Canva

**Certifications:** Google Cybersecurity, Google UX Design, Google Data Analytics

## AWARDS

- **Most Popular Project Team, SCIT, BNU** *Machine Learning and Data Science Innovations, May 2024*
- **Best Student, CAIR, SCIT** *Machine Learning and Data Science Innovations, May 2024*
- **Dean's Honor List, Beaconhouse National University** *Academic Excellence, Feb 2022*