

# Samin Kumra

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## EDUCATION

**Northwestern University**, Evanston, IL

Robert R. McCormick School of Engineering and Applied Science

Bachelor of Science in Computer Engineering

June 2022

GPA: 3.74/4.00

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## COMPUTER SKILLS

### Languages

- Python, C, C++, x86 Assembly, SQL, JavaScript, CSS, MATLAB, and Racket

### Computer Science and Engineering Courses

- Machine Learning, Computer Networking, Computer Architecture, Human Computer Interaction, Advanced Digital Design, Data Structures and Data Management, Computer Systems Software, Fundamentals of Computer Programming I and II, Fundamentals of circuits.
  - Multiple Integration and Vector Calculus, and Linear Algebra, Calculus based General Physics, Accelerated General Chemistry, Engineering Analysis 2/3/4, Micro and Macro Economics.
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## WORK EXPERIENCE

**Machine Learning Intern, Innodata Inc.**

June 2020 – August 2020

- Worked individually on developing a **unified MRC framework** for **Named Entity Recognition**. Algorithm used to apply machine learning to classify text belonging to several different categories.
- Implemented an algorithm that uses **BERT** to analyze text and uses some of its features including context, coordinates etc. to enhance the learning context.
- Increased both accuracy and run time by over 20% and 100% respectively compared to the algorithm previously used by the company.

**Intern, Claro Energy Pvt. Ltd.**

June 2018

- Learnt the nuances of building solar panels and their distribution in the market.
  - Presented work and provided updates to 50+ stakeholders and management on behalf of the team
  - Assisted the marketing department by preparing a short film on solar energy to educate farmers on the usage of solar panels. This film continues to be used by Claro for their future projects.
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## PROJECT EXPERIENCE

**Fantasy Premier League: Machine Learning and Artificial Intelligence**

- Used machine learning to determine what the best soccer players are for a fantasy team.
- Using an **Knap-sack problem** to implement an AI model to predict the best team for the next set of matches.
- Using many ML models such as **Linear and polynomial regression, K- Nearest neighbors** etc.

**Northwestern University, Design Thinking and Communication Course**, Evanston, IL

Client: Shirley Ryan AbilityLab, Chicago, IL

- **Won the best design award** for an in-shower hair-wash device for an arthrogryposis patient.
- Conceptualized and built a device in a collaborative 4-person team environment.
- Conceptualized, built, and pitched an accessible garden for wheelchair patients.

**Robotics Club**, Evanston, IL

- **Built and designed a remote-controlled robot** to complete tasks such as moving and lifting heavy objects and participated in the Midwest Robotics Design Competition held at the University of Illinois, Urbana Champaign.
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## PASSION AND PURSUITS

I am an avid photographer and videographer and started the Photography club in school.

I am very comfortable with English and Hindi, both spoken and written.