Simran Goel

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Summary

Aspiring Software Engineer Intern currently pursuing BSc Computer Science at University College London, with a focus in Artificial Intelligence. Active committee member in AI Society with relevant coursework including creating an AI Tetris player, analysing Convex Hull Algorithms and building a Java WebApp to store patient data. Experience working in teams through participation in the FHIRWorks hackathon. Demonstrated expertise in building applications such as a therapy assistant chatbot and an AI-powered pantry tracker. Proficient in Python, Java, and C, with experience in machine learning frameworks like TensorFlow and Scikit-Learn.

Education

University College London: BSc Computer Science   Jan 2023 - Jan 2026
- Relevant Coursework: Tetris AI player, Convex Hull Algorithm Analysis, Java WebApp
- Focused on AI – enrolled in module Intelligent Systems
- Committee Executive in AI Society

Trinity School Croydon: Maths, Computer Science, Further Maths, Physics (A*A*AA)   Jan 2021 - Jan 2023
- Academic Scholar
- Ran an out of curriculum Maths club for younger years
- Member of Robotics club

Projects

FHIRWorks Hackathon with Gosh & ROCHE
- I created a therapy assistant chatbot to ease workload for therapists as part of a prototype for a mental health app.

Pantry Tracker - *Pantry2Table*
- I created a pantry tracker with an AI recipe maker to help control waste, using **React**, **Firebase**, **Next.JS** and **VertexAI**.

Work Experience

Accenture: Data Science Work Experience   Apr 2024
- Trained neural networks to predict diagnoses for conditions such as Diabetes and Heart Attacks.
- Conducted data analysis using Python and SQL.

Code Ninjas: Teaching Assistant   Aug 2022 - Aug 2023
- Delivered interactive coding classes for children aged 5-14, providing personalised guidance during coding activities and game development projects using Unity with C# and JavaScript.

Skills

- **Programming Languages:**
  Proficient: Python, Java, C
  Familiar: JavaScript, C++, C#, SQL
- **Machine Learning & Data Analysis:**
  Tools & Libraries: Pandas, TensorFlow, Scikit-Learn, Matplotlib, Seaborn
- **Web Development:**
  Front-End: React, HTML5, CSS3, JavaScript
  Back-End: Node.js, Firebase, Next.js, SQL
- **Languages:** English (Native), Fluent in Hindi (Listening), Elementary in Hindi (Speaking)
- **Other:** Distinctions in LAMDA Public Speaking and Acting Grade 5

Certifications

Machine Learning for Image Data: Online Course from University of Nottingham
- Gained hands-on experience with classification methods (Decision Trees, Naïve Bayes), k-means clustering, regression and model evaluation and tackled challenges of overfitting.
- Used **Scikit-Learn** for building models, **Matplotlib** for visualisations, **Pandas** for data processing, and **Fiji/ImageJ** for image analysis.