**Uttkarsh Tewari**

Icon

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Education

**University of California** || Santa Cruz, California Sep 2023-Dec 2026

*Bachelors in Computer Science*

**Relevant Coursework**: CSE 101: Data structures and algorithms , CSE 40: Machine Learning Basics: Data Analysis and Empirical Methods , CSE 140: Artificial Intelligence, CSE 30: Computer abstractions and Python programming, Stats 131: Introduction to Probability Theory, Am 10: Applied Linear Algebra

**GPA**: 3.95

Skills

* Programming languages: Python, Javascript, C, C++, SQL
* Front end frameworks/tools: React, Tailwind CSS, Material UI
* Back end Frameworks/tools: FastApi, PostgreSQL, Next.js
* AI frameworks/tools: Hugging face, PyTorch, Langchain, Sklearn
* Other: VS code, Google collab, Python Notebooks, Data Wrangling, Feature engineering, Machine learning pipelines, models and transformers

Projects­­

**AI counselling app (in progress) |** *React, Materials UI, FastApi, PostgreSQL*

* Currently leading a group of four developers to build a full stack AI powered counselling app
* Conducted market research, Finalized project details and system architecture, helped keep all members on track
* Currently developing the frontend and backend utilizing React, Materials UI, FastApi and PostgreSQL

[**Quizwhiz**](https://github.com/sharifsaeed11/flashcards-says/blob/main/README.md) **|** *Javascript, React, Next.js, Tailwind CSS, Firebase Auth, Firestore, Daisy UI, Stripe API*

* Built a full stack next.js educational, AI based web app that generates flashcards based on a user generated prompt
* Utilized Daisy UI and Tailwind CSS to create a user-friendly UI, Firebase Auth to allow users to sign up and login with their email and passwords and Firestore to allow users to save their flashcard decks
* Used Stripe API to set up a pay wall with three different plans with varying amount of features

[**Machine Learning models without skit learn**](https://github.com/uttkarshTewari2006/Machine-learning-models-without-sklearn) **|** *Python, NumPy*

* Built the linear regression, K-nearest neighbors, logistic regression, and currently building the decision trees model and random forest classifier using only the NumPy python library
* Tested the models using the diabetes and breast cancer sklearn pre build datasets, and optimized the mean square error and accuracy using hyperparameters tuning and standard scaling

Experience

**Headstarter AI**

Software engineering fellow July 2024-Sep 2024

* Built and deployed 5 AI projects in 5 weeks using React JS, Next.js, Firebase, Clerk, and Vercel, following agile methodologies with weekly sprints and incorporated CI/CD practices for iterative deployment
* Participated in weekly sessions with engineers from Google, Y Combinator, Stanford, Amazon and venture-backed startups