

Uttkarsh Tewari

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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 | *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 | *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