Manik Sethi

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EDUCATION

University of California, Davis   **Graduating in June 2025**

Bachelor of Science (B.S.) Computer Science, GPA 3.4/4.00

Coursework: Data Structures in Python, Data Structures in C, Discrete Math, Elementary Statistics, Linear Algebra, Dev in UNIX

EXPERIENCE

A.I. Education Startup Founder | BrainSlice   **Nov. 2023 - Present**

• Founded and spearheaded the development of an innovative A.I. Education platform. Committed to democratizing access to A.I. knowledge and creating an inclusive learning community

• Delivered an engaging and effective educational experience. Use technologies such as **Unity**, **Figma, PyTorch** to create a full stack application. Features include A.I. simulations, quizzes, and clear curriculum structure.

• Learned valuable leadership acumen, including how to lead teams of engineers and designers, push project development, along with marketing and effective communication.

EEG for Advertising Data BCI Executive Pitch | Neurotech Club Entrepreneurship Division   **Nov. 2023 - Present**

• Developed a business model using brain computer interfaces to detect advertisement engagement for market research. Collaborated with a team with a variety of backgrounds, proving the ability to work effectively in an interdisciplinary team

• Leveraged the unique advantage of working with brainwave data, providing a nuanced understanding beyond observable symptoms. Ultimately led to more accurate assessments and timely recovery decisions.

• Developed comprehensive business skills, including the ability to assess scalability and eventual profitability, ensuring the viability of the proposed BCI-driven model for concussion detection.

SELECTED PROJECTS

Stability: An Online Budgeting Tool | *Flask, Python, SQL, CSS*

• Developed a financial web application using **Node.js, React, HTML, CSS, and JavaScript**, showcasing strong full-stack development skills and expertise in modern web technologies.

• Implemented a secure and user-friendly login feature, enhancing the application's data privacy and accessibility, and demonstrating a commitment to user experience and security

• Created an intuitive financial tool, empowering users to efficiently manage their finances, reflecting strong problem-solving skills. App features include creating budgets, tracking month to month expenditures, and adding transactions into categories

Model Madness| *Pandas, Python, SKLearn,*

• Engineered and implemented 10 machine learning models for brain cancer detection, demonstrating proficiency in model development, and understanding

• Utilized SKLearn's pre-cleaned dataset in conjunction with Pandas for efficient and effective model training. Enhanced proficiency in Pandas, showcasing skills transferable to diverse data manipulation and analysis tasks.

• Achieved an outstanding accuracy rate of 99%, validating expertise in the end-to-end workflow and ensuring accurate results. Applied different metrics to score model performance, such as AUC score and F1 score.

Technical Skills

Front End | React, Javascript, NodeJS, CSS, HTML

Back End | Golang, Java, C, C++, Python, MongoDB, MySQL

Tools | Node.js, React, Django, Flask, Pandas, Git, Unity, PyTorch, Unity, Figma, Keras, TensorFlow, Valgrind

Interests: South African Dancing, Bollywood Movie Recreations, Video production, Endurance running

Certifications | Nvidia DLI: Getting started with Deep Learning,