ESTEBAN CHARRY

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EDUCATION

University of California, Berkeley ***Fall 2020 - Fall 2023***

Bachelor of Arts in Data Science

Relevant Coursework

- **Computer Science:** Structure and Interpretation of Computer Programs, Data Structures, Efficient Algorithms and Intractable Problems, Discrete Mathematics and Probability Theory, Designing Information Systems and Devices I, II
- **Data Science:** Foundations of Data Science, Principles and Techniques of Data Science, Human Contexts and Ethics of Data, Introduction to Artificial Intelligence, Introduction to Machine Learning
- **Mathematics:** Multivariable Calculus, Statistics, Probability and Random Processes

TECHNICAL SKILLS

Natural Languages English, Spanish (Native/Bilingual Proficiency)
Computing Python (Advanced), Java (Proficient)

PROJECTS

Machine Learning Models - Python ***January 2021***

Implemented machine learning models using Python. Developed the perceptron algorithm to approximate sinusoidal functions. Utilized neural networks and recurrent neural networks for image recognition tasks, specifically recognizing handwritten digits. Applied these models to natural language processing, successfully classifying different languages.

SIXT33N: Voice Controlled Car - Arduino ***April 2021***

Developed a voice-controlled car using a Texas Instruments microcontroller. A microphone was used to record voice commands. The system includes a noise filtering mechanism to handle noisy input. The command recognition algorithm uses singular value decomposition and principal component analysis to identify the vocal command, allowing the car to respond accordingly using its available memory.

AI Pac-Man - Python ***January 2023***

Pac-Man projects which involve implementing various AI methods to play Pac-Man. The main goal of these projects was not to create AI specifically for video games but to impart essential AI principles like informed state-space search, probabilistic inference, and reinforcement learning. Topics covered in these include search, logic, multiagent search, reinforcement learning, Bayesian networks, and machine learning.

DISTINCTIONS

Microsoft Technology Associate, Solar Cup 2020 Eco-Boating Competition, Questbridge National College Match Finalist, Great Minds in STEM 2020 Scholar, 2020 Chevron Scholarship Recipient