

Aparneesh Patil

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Education

Iowa State University, BS in Computer Science

August 2023 – Present

- GPA: 3.96/4.0
- **Coursework:** Discrete Computational Structures, Data Structures and Algorithms, Linear Algebra

Experience

Undergraduate Research Assistant, Iowa State University – Ames, Iowa

December 2023 – May 2024

- Experimented with different types of supervised learning models and tried to design a machine learning model that best fits the given dataset
- Utilized built-in Python libraries like Numpy, and TensorFlow to explore given datasets and visualize the data.
- Developed and implemented a neural network model to accurately predict the health status of deer based on their voltage readings, antibody levels, and the presence of nanorods.

First-Year Honors Leader, Iowa State University – Ames, Iowa

February 2024 – Present

- Attended 6 leadership training sessions throughout the spring semester for leadership education
- Worked with a co-leader to create a 15-week curriculum consisting of weekly lesson plans and activities
- Served as a mentor and taught 13 first-year ISU honors students to ease their transition into college

Projects

Machine Learning for Biological Systems

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- Developed an intricate neural network model that predicts a deer's sensor values using its voltage measurements and categorical information derived from three different types of data: the deer's health status, antibody levels, and the presence of nanorods.
- Tools Used: Python, Data Analysis

Linear Regression Model From Scratch

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- Developed and implemented a Linear Regression Model using pure mathematics, achieving accurate predictions of y-values from given x-values.
- Tools Used: Python, Data Analysis, Calculus

Skills

Languages: Java, Python, JavaScript

Soft Skills: Time Management, Critical Thinking, Communication, Leadership