Rohan Pandey

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Skills

Languages Python, Java, SQL, C++, MATLAB, Mathematica
Libraries/Tools NumPy, Pandas, Scikit learn, Tensorflow, Pytorch, Azure Databases

Work Experience

NASA May 2024 - August 2024
PROJECT MANAGER INTERN Bellevue, WA
- Contributed to the L'SPACE Lucy and Artemis missions, focusing on robotic surface reconnaissance.
- Leading a team of 11 to develop a robotic lunar ice mapping system for the South Pole's Permanently Shadowed
- Oversaw $25 million budget for the comprehensive design and planning process, including engineering, pro
- Coordinated efforts for a Preliminary Design Review, ensuring project milestones were met.
- Technology used: NX CAD

University of Washington April 2023 - Present
RESEARCH INTERN Seattle, WA
- Conducting research with Dr. Konstantinos Mamis on combinatorics and moments of normal distribution
- Investigating the theory of Gaussian processes with applications in stochastic dynamical systems for ep
- Analyzing extensions of Stein's Lemma and performing complex matrix manipulations and intense statist calculations
- Technologies used: Python, Mathematica, Matlab

Society of Advanced Rocket Propulsion October 2022 - June 2024
LEAD ENGINEER Seattle, WA
- Engineered the Autonomous Recovery Electronics System (ARES) for precision GPS guided rocket recovery, Spaceport America Cup 2024
- Implemented autonomous drogue parachute deployment for descent control from 15K feet.
- Directed the development of a fail safe code recovery mechanism to mitigate system failures
- Constructed a live data transmission system with a real time 3D flight model using Blender and GPS teleme
- Conducted rigorous flight path analysis and algorithm design using C++ and Python, integrating Arduino t
- Technologies used: C++, Python

Selected Projects

Scikit learn Contributor
PYTHON
- One of my projects for this summer is contributing to scikit learn, focusing mostly on issues related t and efficiency of ensemble learning methods. With a focus towards Gradient Boosting. I'm interested in a Learning by enhancing popular open source tools.

Research Rover
PYTHON, HTML, CSS, FLASK June 2024
- Used CrewAI and Llama 3 to make an innovative tool designed to assist users in their research endeavors by topics, links to research papers, and summaries of relevant models and statistics.
- Demo here

MindTunes - NeuroAI Hackathon
PYTHON, HTML March 2024
- Third place winner at UW's NeuroAI Hackathon 2024.

Education

University of Washington Seattle, WA
B.S. in APPLIED AND COMPUTATIONAL MATHEMATICAL SCIENCES - SCIENTIFIC COMPUTING AND NUMERICAL ANALYSIS Expected Graduation: December 2025
- Relevant Coursework: Data Structures and Algorithms, Machine Learning, Data Science, Database Systems, Algebra and Numerical Analysis, Chaos Theory and Dynamical Systems, Discrete and Continuous Mathematica Real Analysis
- President of the INIT Chapter opening at UW. A community helping students land a job in tech through technica opment, access to opportunities, and more. Partnerships with Microsof, the Knight Foundation, Venture M
- President of NASA Space Grant club. Working with $3k+ budget to plan and host career building opportunities and events Recruitment, Resume workshops, and outreach events with local Space organizations and museums.
- Neuroscience AI Course Working on developing a Neuroscience and AI incorporated course at the I2 club at the Allen Institute based in Seattle.