Kaia Ortiz

Research Intern

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STRENGTHS

Innovative Problem Solver
Developed advanced algorithms for handling complex molecular datasets, influencing project outcomes positively.

Collaborative Team Player
Partnered with seasoned researchers, effectively contributing insights toward joint objectives and higher project efficacy.

Effective Communicator
Articulated research complexities succinctly to varied audiences, ensuring alignment and enthusiasm towards project goals.

Analytical Thinker
Applied critical thinking when analyzing vast datasets, leading to the identification of key patterns that impact research direction.

Proactive Learner
Constantly seeking opportunities to learn new methodologies and stay current in fast-evolving technological practices.

SKILLS

Python PyTorch TensorFlow
Machine Learning Data Analysis
Computational Biology
Research Methodologies
Statistical Analysis
Molecular Data Interpretation
Data Visualization
Deep Learning Techniques
Experimental Design
Team Collaboration

SUMMARY

Dynamic PhD candidate specializing in machine learning with a strong foundation in computational biology. Emphasizes hands-on experience in executing experiments that influence drug development, coupled with substantial contributions to research publications in prestigious conferences. Adept at using Python and PyTorch for large-scale data analysis. Proven ability to tackle complex problems autonomously while maintaining clarity in communicating findings to diverse audiences. Eager to contribute innovative solutions within a collaborative research setting focused on advancing therapeutic methodologies.

EDUCATION

PhD in Machine Learning

Brooklyn University GPA: 4.0 2027 Brooklyn, NY

Coursework: *Algorithms, Statistical Methods in ML, Computational Biology, Data Modeling Techniques*

TECHNICAL SKILLS

- **Programming Languages:** Python, R, Java
- **Machine Learning Frameworks:** PyTorch, TensorFlow, Scikit-learn
- **Development Tools:** Git, Docker, Jupyter Notebooks
- **Cloud Platforms:** AWS, Google Cloud, Azure
- **Data Visualization Tools:** Matplotlib, Seaborn, Tableau
- **Statistical Software:** SAS, SPSS, STATA
- **Methodologies:** Agile, Scrum, DevOps
- **Database Systems:** MySQL, PostgreSQL, MongoDB
- **Experimentation Techniques:** A/B Testing, Simulation, Statistical Experimentation
- **Open Source Projects:** Contribution to GitHub repos, Collaborative coding

EXPERIENCE

Research Intern

University Research Lab January 2025 - Present Brooklyn, NY

Engaged in an environmental-focused machine learning project that leverages molecular data insights for innovative drug discovery. Responsibilities encompass independent research oversight, utilitarian experimentation, drafting analytic reports, and collaboration with senior faculty members.

- Led a research project implementing ML methods on molecular data, accelerating drug development timelines.
- Engineered PyTorch models for large datasets, improving comprehension of molecular relationships in biological systems.
- Conveyed research insights through presentations, enhancing visibility of research outcomes in academic forums.
- Fostered partnerships with students and faculty, reinforcing experimental frameworks in collective projects.
- Streamlined data processing workflows, integrating open-source tools to boost efficiency for collective analysis.
- Evaluated experimental data thoroughly, informing future research strategies and potential scholarly publications.

Machine Learning Developer

Capstone Project September 2024 - December 2024 New York, NY

Public Speaking

Project Management

LANGUAGES

English — Native

Spanish — Intermediate

MY CAREER

- Research Intern at University Research Lab (1.4 Years)
- Machine Learning Developer at Capstone Project (3 Months)

Managed the design and implementation of a predictive model aimed at understanding protein interactions using machine learning techniques. Collaborated closely with a dedicated team, showcasing innovative approaches at the university's symposium.

- Developed a predictive model utilizing TensorFlow for intricate biological data analyses, yielding significant accuracy improvements.
- Conducted extensive data preprocessing, improving data quality and subsequently enriching model performance.
- Worked within a team to present ground-breaking findings, generating notable recognition from faculty and peers.
- Documented comprehensive methodologies which laid the groundwork for subsequent peer research initiatives.
- Provided meaningful feedback for improvement on peers' coding practices, nurturing skills development within the group.
- Attended workshops dedicated solely to advancing programming proficiencies and analytical visualization techniques.

LEADERSHIP & AWARDS

- Dean's List, Brooklyn University - 2024, 2025
- Best Research Paper Award, University Research Symposium - 2025

CERTIFICATIONS

- Machine Learning Specialization 2026
- Data Science Professional Certificate 2026

PROFESSIONAL AFFILIATIONS

- Member, AI and Data Science Club, Brooklyn University - 2023 – Present
- Organizer, Annual Coding Competition, Brooklyn University - 2025

ADDITIONAL INFORMATION

Work Status : Authorized to work in United States. No sponsorship required.

REFERENCES

AVAILABLE ON REQUEST