

ABDOULFATAH ABDILLAHI

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PROFESSIONAL SUMMARY

Experienced data scientists and graduate research assistant specializing in machine learning and deep learning applications for genomic data analysis. Proficient in predicting E.coli drug resistance. Actively seeking an internship in data science, software engineer or bioinformatics eager to contribute to and learn from cutting-edge research and development projects in these fields.

EDUCATION

- **Master of Science** in Data Science and Artificial Intelligence (Expected 2025) at State University.
- **Bachelor of Science** in Computer Science(2021-2023) at San Francisco State University
- **Associate in Science**, Computer Science (2019-2021) at Northern Essex Community College

WORK EXPERIENCE

Graduate Research Assistant at State University (2023 - Present)

- My research is predicting E.coli Drug resistance by applying advanced machine learning and natural language processing techniques to genomic data.
- Performed extensive data analysis on large genomic datasets, identifying key genetic markers associated with drug resistance, which led to the discovery of novel targets for antibiotic development and informed future research direction.
- Took the initiative to explore and implement new deep learning algorithms, improving the accuracy and efficiency of drug resistance prediction by 15% compared to existing approaches, demonstrating a strong problem-solving ability and dedication to innovation.

Discussion Leader / Grader (Feb 2024 - May 2024)

- Facilitated and led discussions for CSC 219 and CSC 101, supporting 25 students by providing expert guidance and academic support, enhancing their understanding and application of Python and Java in data science and computing, respectively leading to a 15% improvement in class performance.
- Took initiative to mentor and support students, resulting in successful project completion for all 25 students.

Intern Bioinformatics at Genentech (June 2023 - Sep 2023)

- Analyzed the performance of the existing model and identified the need for enhancements to improve efficiency and computational speed
- Collaborated with a team of data scientists to implement CPU parallelization techniques within the xgbse algorithm to distribute the training process across 12 CPU cores.

Project Experience

Fitness - FitBuddyPal (Sep 2023 - Dec 2023)

Scrum Master & Frontend Lead - [FitBuddyPal](#)

- Led the integration of the ChatGPT API to automate and personalize workout and nutrition plans within the FitBuddyPal, enhancing user engagement and satisfaction
- Led Agile Practices: Acted as Scrum Master, organizing bi-weekly meetings to review team progress, address bottlenecks, and ensure on-time delivery of project milestones

Full-Stack Developer - Educlouds App (Jan 2024 - Present) - [Educloud](#)

- **Frontend Development:** Designed and implemented the user interface using modern web technologies, ensuring seamless and accessible experience for students to engage with the platform
- **Backend Development:** Built backend services using Flask, SQLAlchemy, and Python; developed and maintained APIs that handle data transactions and integration with external computational resource providers.

Presentation- Poster(March 2024)

Abdoulfatah Abdillahi, Estefanos Kebebew, Gian Carlo L. Baldonado, Juvenal F Barajas, Myco Torres, Andrew

Scott, MS, Anagha Kulkarni, PhD. Ilmi Yoon, PhD., Pleuni Pennings, PhD. Predicting E.coli Drug Resistance through Different Deep Learning-Based Approaches using in Comprehensive Pan-genome Assembly. Poster presenting at The Allied Genetics Conference, Metro Washington, DC.

Technical SKILLS

- **Programming Language:** Python(Proficient), Java(Intermediate), C++, JavaScript, HTML, CSS
- **Frameworks & Libraries:** React, Node.js, Pytorch, Keras, TensorFlow, Express, Flask, Docker file
- **Databases:** SQLAlchemy, Mongoddb
- **Cloud & DevOps:** Google Cloud, experience with high-performance computer clusters (Slurm)