LAXMAN ADHIKARI

Albuquerque, NM | ladhikari023@unm.edu | laxmanadhikari.com | 713-277-8617

https://github.com/ladhikari023

https://www.linkedin.com/in/ladhikari023/

> EDUCATION

The University of New Mexico | *Albuquerque,NM* ***Expected Graduation: May 2023 GPA 3.61***

Bachelor of Science in **Computer Science**

- ***Coursework:*** Software Engineering, Design of Large Programs, Data Structure and Algorithms I & II, Computer Architecture, Data Organization, Intermediate Programing in Java, Computer Networks, Linear Algebra, Statistics
- ***Honors & Awards:*** Dean's List (5/5) semester, Amigo International Scholarship, ESS Student Success Scholarship
- ***Self-taught Skills:*** Web Development with Django, Data Science Bootcamp

> TECHNICAL SKILLS

- Java & JavaFX
- Python & libraries
- Django, React
- RESTful APIs
- SQL, SQLite, PostgreSQL
- Machine Learning
- HTML, CSS, JavaScript
- Git – GitHub, Gitlab
- AWS - EB, S3
- Shell Scripting
- Linux
- Agile - JIRA

> EXPERIENCE

Undergraduate Teaching Assistant - CS105L | *The University of New Mexico* | *Albuquerque, NM* ***January 2022 to Present***

- Guided 50+ Students in learning the Web Development fundamentals with HTML, CSS, JavaScript and OOP concepts.
- Explained programming practices and debugging strategies to students.
- Held office hours, graded assignments, conducted Lab hours, and created 'help-hour' plan for struggling students.

Software Engineering | The University of New Mexico ***Jan 2022 to Feb 2022***

- Worked in team of 5 in an Agile environment to design and program a digital home safe from scratch.
- Used git for the version control and Java Programming to implement all the functionality of home-safe.
- Implemented the design prototype using JavaFX and recognized as the best model in the class.

Data Analyst | *The University of New Mexico* | *Albuquerque, NM* ***January 2020 to May 2021***

- Collaborated with Data Manager in Center for Academic and Professional Support (CAPS) to generate student reports, analyze the student visit behavior throughout the semester using Python libraries in Jupyter Notebook.
- Helped create a logistic regression machine learning model to predict the number of students who require tutoring at a given time with the accuracy of 85%.

> PROJECTS (All Projects are shared in GitHub)

Auction Simulation: (*Java/Multithreading-Socket program)* Designed a simulation of three different servers in same network where a bank communicates with several Agents and Auction houses to take bid, override bid and complete bid using JSON. Recognized as top contributing member in a group of 5 students.

E-Commerce: *(Python/Django/SQLite/AWS)* Designed and Implemented both front-end and back-end of a web-based e-commerce application using Django for backend and HTML, CSS and JavaScript for front-end. Deployed the app in AWS Cloud.

Face Detection app - Machine Learning: (*Python/Django/MachineLearning)* Built a web-application that can detect and recognize multiple faces of celebrities in an uploaded image with accuracy of 90%. Used SVM, Logistic Regression and Random Forest models to train the datasets using scikit-learn. The back-end part of the application is done is Django and deployed in Heroku.

Portfolio Website*: (HTML/CSS/JavaScript/AWS)* Designed and implemented a personal portfolio-website. Deployed the site in AWS.

Self-Driving Vehicle: *(Python, Machine Learning, OpenCV)* Built a machine learning model that can identify the lanes in the road and react based on the traffic signs on the road. Used OpenCV for image manipulation and keras to train-test data.

Maze*: (Java/JavaFX)* Implemented maze creator and solver using graph algorithms, heap and disjoint subset.

Human Benchmark*: (Java/JavaFX/OOP)* Created a game in JavaFX GUI, where a person can test their cognitive skills and also get the report of their performance in csv file.

> LEADERSHIP & ACHIEVEMENTS

- **Project Manager -** *Software Engineering CS460 - Home Safe Project* ***January 2022 to Present***
- **CTSCHealthHackathon2021** - *Created a chatbot using NLP to detect cardiac arrest.* ***March 2021***
- **HopHacks2021** - *Created a machine learning model that recognizes famous persons* ***September 2020***
- **Team Leader** - *Design of Large Program CS351 - Auction Simulation* ***October 2020 to November 2020***
- **Runner Up** - *Regional Mathematics Olympiad 2015* ***August 2015***