LAXMAN ADHIKARI

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> 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 for undergraduate study
- ***Self-taught Skills:*** Web Development with Django, Data Science Bootcamp

> TECHNICAL SKILLS

- Java & JavaFX
- Python & libraries
- Django Framework
- HTML5, CSS3, JavaScript
- React JS
- Machine Learning - Sklearn
- SQL
- Git – GitHub, Gitlab
- AWS - EB, S3
- C Programing
- Linux
- Haskell

> WORK EXPERIENCE

Undergraduate Teaching Assistant - CS Department | *The University of New Mexico* ***January 2021 to Present***

- Assisted 50+ students in Introduction to Web Development Class by answering their questions, engaging with the students every week to explain concepts related to CS Fundamentals, HTML, CSS and JavaScript, and Object-Oriented Programming in JavaScript.
- Worked closely with the Professor to ensure students are getting the most from the class by holding office hours, grading assignments, and conducting Lab hours.

Data Analyst | *The University of New Mexico* ***June 2021 to December 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 and Jupyter Notebook.
- Helped create a logistic regression machine learning model to predict the number of students wo require tutoring at a given time with accuracy of 85%.

> PROJECTS (All Projects are shared in GitHub)

E-Commerce Web Application: *Python, Django Framework, SQlite, AWS, Html, Css, Bootstrap, Javascript*

- Created a web based e-commerce application with Django Framework and deployed it in AWS.
- Added custom user model, and features like add items on cart, increase or decrease order quantity, choose variance of a single product, view orders, Email verification while login, created, update and delete product feature for admin.
- Link to the website

Auction Simulation: *Java, Design Pattern, Multi-threaded Socket Programming, JSON, OOP*

- Created an auction simulation with three servers i.e. Bank, Agent and House. All three servers are in different Computer within the same network. Server communicates to each-other using JSON. Used Terminal for User Interaction.
- Worked in group of 3 and used multi-threaded socket programing concept to finish the project on time.
- Link to github repository

Face Detection app - Machine Learning: *Python, Django, Heroku, SVM, Random Forest, Logistic Regression, model pipeline*

- Built an application combining knowledge of Django and Machine learning models like SVM, Logistic Regression and Random Forest. When user upload an image of a famous celebrity, the app can detect the persons on image.
- Link to the website

Maze Generator & Solver: *Java, JavaFX, Multi-threading, Graph Algorithms, Object -Oriented Programing*

- Created graphical animations of building and solving of maze using popular graph algorithms like Prim's, Kruskal's, Depth-first search, Aldous, Pledge Solver, Wall Follower along with multi-threading and concept of Object Oriented Programing.

Self-Driving Cars - Applied Deep Learning : *Python, OpenCV, CNN, Sklearn*

- Built a fully functional Image classifying model using CNN for a self-driving car to detect path and traffic signs with accuracy of 90%. Used OpenCV to manipulate the image to be train ready and used sklearn to train the images.

> LEADERSHIP

- **Project Manager -** *Software Engineering CS460 - Home Safe* ***January 2022 to Present***
- **Team Leader** - *Design of Large Program CS351 - Auction Simulation* ***October 2021 to November 2021***