AKSHEY SIGDEL

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Education

Master of Science in Computer Science
Jan 2023 - Present

Boise State University — *Boise, Idaho, USA*

- GPA: 4.0

Bachelor of Engineering in Computer Engineering
Nov 2017- May 2022

Purwanchal Campus, IOE, TU — *Dharan, Nepal*

- Percentage: 74.57 — Cumulative GPA: 3.6 / 4.0 (Translated)
- 5 times Semester Scholar (Awarded to the Semester Topper of the Faculty)
- ERC-BCT-2074 Batch Topper (Awarded to the Batch Topper of the Faculty)

Relevant Coursework

- Data Structures
- Algorithms Analysis
- Artificial Intelligence
- C, C++
- Software Methodology
- Database Management
- Operating Systems
- Computer Architecture

Experience

Graduate Research and Teaching Assistant
Jan 2023 - Present

Boise State University - CS Department — *Boise, Idaho, USA*

- Conducting research on Blockchain applications in Medical sector.
- Utilizing communication and coaching skills to assist and guide undergraduate students in understanding the basics of programming.

Software Engineer Associate
Aug 2022 - Nov 2022

Fusemachines Nepal - Trainee/Internship — *Kathmandu, Nepal*

- Course focused traineeship geared towards data science and engineering.
- Collaborated on project to make analysis and evaluationof Historical Weather Dataset using Apache Spark.
- Worked on API-ORM-Pandas project creating a custom dataset and analyzing the data with pandas and performing transformation using ORM-API calls.

Projects

Differentially-Private Blockchain for Medical records sharing. | *Graduate Thesis*
Ongoing

- Conceptualizing differentially private algorithm utilizing blockchain optimized for medical records .

Abusive Sarcasm Detection | *NLP Course Project*
Mar 2023 - Apr 2023

- Comparatively analyzed multiple Multi-Label BERT-based Models for Abusive Sarcasm Detection considering both mutual inclusion and exclusion property for a custom dataset.

Landslide Detection using Remote Sensing Imagery | *Undergraduate Major Thesis*
Nov 2021 - Feb 2022

- Initiated a research project that utilizes computer vision and deep learning techniques like transfer learning, semantic segmentation and image classification to identify the regions in satellite images that are affected by natural disasters like landslide.

Room Finder Application | *Undergraduate Minor Project*
Jan 2021 - Mar 2021

- Developed a Flutter based mobile application that facilitates finding rooms and apartments for rent near any local which was distributed among more than 250 incoming freshers in ERC, Dharan for their ease to find rooms near campus area.

Traffic Monitoring Platform | *Hackfest*
19th - 21st Feb 2021

- Created a Computer Vision based web application to classify and count the total number of Nepali vehicles in the road and estimate the road occupancy.

Skills

Technical Skills: Python, C++, C, SQL, HTML, CSS, JavaScript, React, MySQL, MongoDB, NumPy, Pandas, Matplotlib, Tensorflow, PyTorch, Hadoop, Spark, Kafka, Linux, Docker, GIT, Kubernetes

Soft Skills: Public Speaking, Critical Thinking, Active Learning, Time Management, Teamwork, Adaptability