

Sabnam Pandit

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EDUCATION

Masters in Big Data Analytics

San Diego State University, USA

August 2023 - Present

- GPA: 4.0/4.0
- Relevant Coursework: Machine Learning, Enterprise Database Management, Big Data Analytics, Data Visualization, Deep Learning for NLP, Time Series Analysis for Business Forecasting

Master's in Business Administration-Information Technology

Tribhuvan University, Nepal

March 2019 - August 2021

- Cumulative GPA: 3.73/4.0
- Relevant Coursework: Big Data and Business Analytics, Statistics, Business Intelligence, Database Management

Bachelor's in Computer Science and Engineering

Visvesvaraya Technological University, India

August 2014 - June 2018

- Relevant Coursework: Software Engineering, Data Structure and Algorithms, OOP, Database Management, Math

PROFESSIONAL EXPERIENCE

Teaching Assistant

San Diego State University, Course: CS 420 Advanced Programming Languages (Prof: Dr. Maryam Mary Pourebadi),
Course: CS 577 Principle and Techniques of Data Science (Prof: Sean Kang)

Sep 2024 - Present

- Grading Homeworks and Assignments
- Office Hours for Advanced Programming Language

Research Assistant

San Diego State University, Data Science Lab (Advisor: Dr. Hajar Homayouni)

January 2024 - Present

- Text Contradiction Analysis using Large Language Models on Medical Data

Quality Assurance Engineer

Focus One Payment Solution, Kathmandu, Nepal

July 2021 - June 2022

- Responsible for thorough testing process of product (Digital Payment Solutions.).
- API Testing, Automation Testing for Web Portals, Documentation
- Project Coordinator to the third party involved in product development.

Java Intern

Future Education of Science and Technology, Nepal

Sep 2019 - Dec 2020

- Designed web applications for academic institutions using Java Programming language.

SKILLS

- **Programming Languages:** Python, C, C++, Java, R, MySQL, JavaScript, HTML, CSS
- **Big Data & Machine Learning:** Convolutional Neural Network, Keras, Recurrent Neural Network (LSTM), Fully Connected Neural Network, NumPy, Pandas, Scikit-learn, MongoDB
- **Data Science & Miscellaneous Technologies:** Git, Conda, Tableau, Data science pipeline (cleaning, wrangling, visualization, modeling, interpretation), Excel, APIs

PROJECTS

Image Caption generation with custom music recommendation

Advanced Big Data Analytic

Fall 2023

- Trained CNN+LSTM model end to end in Flickr dataset to generate captions based on image. The captions were used to create engaging, Instagram- friendly text and recommend music using text analytics to match the emotional tone of the image. [Link](#)

Supply and Demand of the Electric Vehicles (EV) charging stations in relation to EV population in Washington State

Big Data Science and Analytics Platform

Fall 2023

- Analyze the current map of the Electric Vehicles (EV) charging stations in relation to the EV population map to see if there are neighborhoods with higher demand for the charging stations and whether this demand is met. We used Machine Learning Regression models (Random Forest, Support Vector, Gradient Boosting) and tools like ArcGIS and Tableau for visualization. [Link](#)

Weather Chat

Data Visualization

Fall 2023

- Used JavaScript in the P5js platform to create an interactive chat weather app that chats with user and displays weather data through graphs and weather information on a map. Integrated the Google PaLM (LLM) API and Weather API to allow both user interaction through chat and weather display. [Link](#)