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

Masters 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 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

Research Assistant
San Diego State University, Data Science Lab (Advisor: Dr. Hajar Homayouni) January 2024 - Present
- Anomaly Detection in 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.). My tasks include 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 layer, NumPy, Pandas, Scikit-learn, Spark, Hadoop, MongoDB
- **Data Science & Miscellaneous Technologies:** Git, Conda, Tableau, Data science pipeline (cleansing, 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. Following caption generation, we tokenize the captions to create engaging, Instagram- friendly text that resonates with users.
- Additionally, the tokens are used to detect the mood conveyed by the picture. This mood identification can then inform music recommendations tailored 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 models (Random Forest Regressor, Support Vector Regressor, Gradient Boosting Regressor, Linear Regression) to compare results 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 and displays information in a visually appealing way related to weather data through graphs and rendering weather on map
- Intergrated the Google PaLM (LLM) API and Weather API to allow both user interaction through chat and weather display. Link