Prabin Nepal

https://nepalprabin.github.io

EDUCATION

University of South Dakota

Vermillion, SD

Master of Science in Computer Science; GPA: 4.00

Jan. 2021 - Present

Visvesvaraya Technological University

Bachelor of Engineering in Computer Science and Engineering; GPA: 8.52)

Bangalore, India Oct. 2015 – Sept. 2019

Mobile: +1-605-202-9258

Email: nepal.prabinn@gmail.com

Work Experience

University of South Dakota

Data Initiative Student Assistant

Vermillion, SD

Aug 2022 - Present

- Gathering reports requirement; collaborating with the team lead using wireframe mockups
- Utilized complex SQL join statements to represent relationship between facts and dimensions
- o Organized dashboards in Tableau to analyze the child abuse rate in different states of the United States
- Modeling all the dashboards with appropriate filters for comprehensive analysis by state, child's removal from home due to various reasons

Ensemble Matrix

Machine Learning Engineer

Kathmandu, Nepal

Nov 2020 - Dec 2021

- \circ Led a small team for data collection and labeling process to make data ready for handwritten text recognition
- Used convolutional LSTM network to extract handwritten text from images
- Reproduced research papers and applied research methodology into new use cases
- $\circ~$ Helped financial institutions automate transaction process by using computer vision techniques to verify signatures and reduced the workforce of the institution by 20%
- Created backend APIs to make model ready for production environment

Bitpoint Pvt. Ltd.

Kathmandu, Nepal

Nov 2019 - Nov 2020

Software Engineer

- Created a backend system for medical entrance preparation using Nodejs
- Used Vuejs to create admin portal that manages all data and users of the application
- o Integrating front-end element with the back-end API requests
- Integrated payment functionality with different subscription tiers to let users subscribe the application

TEACHING EXPERIENCE

Achiever's Group

Kathmandu, Nepal

Apr 2021 - Dec 2021

Python Instructor

- Delivered and facilitated course content
- Led in-class exercises, project time, and participating in lecture discussions
- Delivered content related to Python, Web development (Django), and Data Analysis

PROJECTS

- Videos Transcription using Whisper: Transcribed Stanford NLP lecture videos using OpenAI's whisper and deployed it into AWS EC2 using Flask. Link
- Backend system for food delivery services: Build Django Rest APIs for food delivery application. Integrated payment related third party APIs for the application and used CI/CD approach for deployment in Amazon EC2.

PROGRAMMING SKILLS

- Languages: Python, Javascript
- Databases: MySQL, PostgreSQL, MongoDB
- Libraries: Pytorch, Keras, Tensorflow, Huggingface Transformers
- MLOps: AWS, Docker, DVC, Prefect, Hydra, Github Actions, Model Packaging (ONNX)
- Web Technologies: Django, FastAPI, Nodejs, Vuejs