Sushank Ghimire

AI Developer and Enthusiast

+977-9863028272
sushankgghimire@gmail.com
sushankghimire.com.np
sushankgghimire
sushankghimire

Education

•Bachelors in Computer Engineering *2019-23*

Thapathali Campus (Institute of Engineering), Kathmandu CGPA: 7.95

Experience

•ICEBRKR, Virtly *March, 2024 - Present*

AI Developer

- Researched on various possible AI solutions for the presented problems.
- Developed and integrated a number of components working with Computer Vision and NLP.
- Developed API endpoints for the AI solutions.

•Perigee Solutions *Feb 2023 - Feb 2024*

Backend Developer

- Worked on various projects developing websites using Django.

•Governance Automation Solutions *Aug 2020 - Nov 2020*

Web Development Intern

- Worked with Laravel, developing sites for governmental orgs.
- Worked with Git, and also managed the VPS server for a website.

Personal Projects

•Engineering Entrance Preparation Web App

A website for Fast Track Engineering Institute.

- Facilitating storing students' information and sharing content, as well as taking exams.
- Technology Used: Python, Django, Bootstrap.

•Automatic Crossword Generation and Solving

An application for solving crosswords found in newspapers and also generating similar crosswords.

- Uses transformer based QA models to solve and generate crosswords.
- A complete web app for end-to-end pipeline for solving and generation.
- Technology Used: Python, pyTorch, Bootstrap, HTML, Django, FastAPI

•License Plate Detection

A web app for detecting License Plates and the respective numbers.

- Usage of YOLO for detecting plates and the letters in the plate.
- Developed a web app for a complete workflow with uploading the media to getting the result.

•Stock Prediction

An application for predicting stock prices using a number of factors.

- Developed sentimental analysis system for analyzing stocks related tweets.
- Integrated multiple parts of the system as a whole.

•Basic Machine Learning Applications

Used a number of core concepts and algorithms for machine learning.

- Developed a flower classification model and a wine classification model using Principal Component Analysis.
- Implemented Decision Trees for breast cancer detection.
- Predicted obesity based on various attributes using a Naive Bayes Classifier.
- Applied the K-Nearest Neighbors algorithm to predict dropout and success rates of undergraduate students.
- Designed and trained an Artificial Neural Network (ANN) for digit recognition, experimenting with various configurations.
- Conducted a comparative study of ball-tree and KD-tree structures for optimizing KNN performance over brute-force methods.

Technical Skills and Interests

Languages: Python, Javascript, HTML+CSS
Libraries : Python Libraries, AI/ML Related Libraries
Web Dev Tools: VScode, Git, Github
Frameworks: Django, pyTorch, Tensorflow, Scikit-Learn
DBMS: PostgreSQL
Relevent Coursework: Data Structures & Algorithms, Operating Systems, Object Oriented Programming, Database Management System, Software Engineering.
Areas of Interest: Artificial Intelligence/Machine Learning, Data Analysis and Analytics
Soft Skills: Problem Solving, Self-learning, Presentation, Adaptability

Positions of Responsibility

•**IT Expert** Fast Track Engineering Institute *Jan 2024 - Present*

– Manage and overlook all the website related issues.
– Maintain the VPS server and ensure the latest changes are pushed to it.