KUSHAL BHATTA

Computer Engineer

@ kushal.bhatta12@gmail.com +1-(605)2029742 Vermillion, SD, USA linkedin.com/in/iamkushal7/ github.com/iamkushal

EXPERIENCE

Quality Assurance Automation Engineer

Delta Data

May 2022 – Dec 2023 Columbus, GA

- Developed and maintained comprehensive test plans to ensure thorough software functionality coverage.
- Implemented advanced test automation using Gherkin language, resulting in a streamlined testing process and enhanced reliability of automated test suites.
- Assumed a dual role as a Product Manager, collaborating closely with development teams to align testing efforts with product goals and contributing valuable insights to product enhancement initiatives.

Quality Assurance Engineer

Crossover for Work

August 2020 – April 2022 Austin, Texas

- Developed and maintained test scenarios, demonstrating a meticulous approach to identifying and rectifying software issues.
- Executed test automation in Gherkin language for web and mobile applications, reducing manual testing efforts and ensuring a consistent testing process.
- Conducted thorough testing, including basic API testing and other methodologies, contributing to a robust quality assurance process.
- Led scripting initiatives to automate repetitive tasks, optimizing testing workflows and maintaining comprehensive documentation for effective knowledge transfer within the team.

Network Engineer

Hansikar Technologies

Oct 2019 – Jul 2020 Kathmandu, Nepal

- Helped to establish the networking environment by designing system configuration, directing system installation and defining, documenting and enforcing system standards.
- Design and implement new solutions and improve resilience of the current environment
- Provide remote support to on-site engineers and end users/customers during installation

EDUCATION

Masters in Computer Science

University of South Dakota

Jan 2024– Vermillion, South Dakota, USA

Bachelors in Computer Engineering

Kathmandu University

Aug 2015 – Oct 2019 Kavre, Nepal

ACHIEVEMENTS AND AWARDS

Mini Hackathon Winner

January 2019 Kathmandu University

Idea Studio Season 3 | Finalist

2018

- Selected as the Top 10 Business Start Up Idea from all over the country for our startup Pin Product - an electronic commerce platform .

PROJECTS

Emotion Recognition System

- I developed a Convolution Neural Network (CNN) model using Keras for emotion detection using live camera feed. To train the model, I used the fer2013 dataset from Kaggle, which contains images labeled with different emotions. I used image augmentation techniques to enhance the dataset and improve the performance of the model. The model was able to detect emotions in real-time using the live camera feed and classify them into one of the emotions available in the dataset.

OCR Scanner

- OCR Scanner is a python based application that helps to convert text in images into actual text in .doc or .txt.

EduSentral

- 'EduSentral Entrance System' is an android application made with the help of Android Studio. EES will be developed using JAVA and SQLite/MYSQL as the backend development tool. This application proposes to develop an android app which lets the students to take their entrance examinations for any school, colleges or universities on their android phones.

Store Sales Prediction – Forecasting

- We created a project to predict sales using ML by using past data to predict future sales. The Kaggle Demand Forecasting dataset was used for this project. Panda and Numpy libraries were used with two datasets with the revenue per store per day, split between our historical data (used to train the model), and our forecasting data (used to deploy our model).

Nepali Plagiarism Detection

- An application for detecting plagiarised Devanagari text files uses a rule-based stemming algorithm and Cosine similarity to compare and identify plagiarism in text files written in the Devanagari script. The rule-based stemming algorithm is used to reduce words to their root form to improve the accuracy of the comparison. Cosine similarity is a measure of similarity between two non-zero vectors of an inner product space, which is used to compare the text files and identify plagiarism. The application can scan and compare multiple Devanagari text files at once to detect any similarities between them, and flag any instances of plagiarism.

TECHNICAL SKILLS

Language	Python, C++, Gherkins, SQL
Libraries	Selenium, Pandas, Numpy
Frameworks	Pytorch, Tensorflow, OpenCv
Tools	WordPress, s3 Browser, GIT, Docker