

Rohi Mukka

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EDUCATION

M.S. Computer Science

Arizona State University, Tempe, AZ

May 2024

3.87 GPA

Related Coursework: Foundations of Machine Learning, Data Mining, Statistical Learning Theory, Advanced Database Management Systems, Scalable Data Processing, Data Visualization Techniques, Semantic Web and Knowledge Mining, Knowledge Representation and Reasoning, Digital Video Analytics

B.Tech. Computer Science & Engineering (Honors)

Lovely Professional University, Punjab, India

June 2022

8.19 CGPA

Related Coursework: Advanced Data Structures & Algorithms, Machine Learning Principles, Foundations of Artificial Intelligence, Applied Statistics, Discrete Mathematics, Object-Oriented Analysis & Design, Operating Systems, Computer Organization & Systems Programming, Cloud Computing Technologies, Combinatorics and Graph Theory, Object-Oriented Programming Techniques

TECHNICAL SKILLS

Programming Languages: Python, JavaScript, Java, SQL, Swift, C++, Bash

Tools, Databases, and OS: React.JS, Node.JS, Express.JS, PostgreSQL, Git, GitHub, Windows, MacOS, Linux/Unix

ML Libraries: Scikit, NLTK, SpaCy, Tensorflow, Keras, Flask, PyTorch

RELEVANT PROJECTS

Image Caption Generator, *Research Project*

- Developed an intelligent system using Google's Efficient Net to generate image captions, achieving a 30% improvement in BLEU scores compared to other models
- Implemented Badhanau's attention mechanism to enhance contextual understanding, resulting in more accurate captions. Conducted extensive testing and evaluation
- Tech Stack: Python, TensorFlow, Badhanau's attention model, BLEU

Innovative Jurassic World Visualization, *Class Project*

- Developed an interactive and innovative web-based visualization using the Jurassic Park Exhaustive Dinosaur Dataset. The project aimed to create an engaging and informative infographic for museum visitors
- Combined quantitative and categorical data to create a unique, engaging exhibit
- Project praised and recognized as one of the best in class for creativity and interactivity
- Tech Stack: HTML, CSS, JavaScript, D3.JS, Leaflet.JS

Laptop Marketplace, *Class Project*

- Created an online marketplace for new and used laptops, which handled over 200 interactions during testing
- Designed a user-friendly interface and integrated backend with PHP. Managed data with XAMPP for a seamless user experience.
- Tech Stack: HTML, CSS, PHP, JavaScript, XAMPP

Twitter Sentiment Analysis, *Personal Project*

- Developed a deep learning-based program to analyze tweet sentiment, processing over 10,000 tweets with 85% accuracy in sentiment-classification
- Utilized the Twitter API for real-time data collection and implemented a neural network model for sentiment analysis

PUBLICATIONS

Research Paper: Image Caption Generator using EfficientNet

July 2022

- Developed an advanced image captioning model using EfficientNet for feature extraction and a Transformer-based approach for generating descriptive captions.

ACTIVITIES AND LEADERSHIP

CyberHack, Punjab, India: Core Technical Member

Mar 2020 – Mar 2022

- Led the development and implementation of technical projects, enhancing cybersecurity awareness and skills
- Collaborated with a team to organize hackathons and workshops, providing hands-on experience in cybersecurity practices
- Developed and delivered technical training sessions on various cybersecurity tools and techniques to participants

AIESEC, Punjab, India: Global Volunteer

Sep 2019 – Feb 2020

- Facilitated international exchange programs, promoting cultural understanding and global leadership.
- Enhanced communication and teamwork skills through collaboration with international volunteers.
- Engaged in activities that supported educational and social initiatives, impacting local communities.

ACHIEVEMENTS AND CERTIFICATIONS

- Co-authored and published "Image Caption Generator using EfficientNet" at ICRITO 2022 under Intelligent Systems II. July 2022
- Google Data Analytics Professional Certificate, Coursera Nov 2021
- Engineering Virtual Program, Goldman Sachs (via Forage) Nov 2021
- Software Engineering Virtual Experience, JPMorgan (via Forage) Oct 2021
- Certified Machine Learning Practitioner, HenryHarvin Apr 2021