Shivail Anand

(437)-339-9349 | shivailanand2003@gmail.com | linkedin/shivail-anand | github/shiv317 | Toronto, ON

EDUCATION

York University **January 2021- April 2025**

Bachelor of Science in Computer Science *Toronto, ON*

Relevant Coursework: Data Mining, Software Tools, Introduction to Database Systems, Object-Oriented Programming, Front-end development, Data Structures, Design and Analysis of Algorithms, UX/UI Design, Verilog, RISC-V

Experience

Data Science Intern – CodeClause **October 2024 – Present**

- **Customer Segmentation UI with Clustering**: Developed a user interface for customer data input and implemented clustering algorithms like K-Means to segment customers based on behavior, using Python, Streamlit, and Scikit-learn.
- **Customer Lifetime Value Prediction:** Applied regression techniques to predict customer lifetime value based on historical interactions, utilizing Python, Pandas, and Scikit-learn for data processing and modeling.

Projects

Face Mask Detection using Convolutional Neural Networks | Python, TensorFlow, OpenCV, CNNs **September 2024**

- **Convolutional Neural Network**: Designed a CNN model with TensorFlow/Keras achieving **99.97% accuracy** on the training set and **93.5% accuracy** on the test set after 100 epochs.
- **Image Preprocessing**: Applied advanced preprocessing techniques like resizing, normalization, and augmentation to enhance model performance and generalization. Integrated OpenCV for real-time detection, enabling practical deployment in security systems.

Fake News Detection using Logistic Regression | Python, Scikit-learn, NLTK, TF-IDF Vectorization **September 2024**

- **Text Preprocessing and Feature Engineering**: Utilized stemming and TF-IDF vectorization to transform textual data into numerical features for classification.
- **Logistic Regression Model**: Built a logistic regression classifier that achieved **97.9% accuracy** on the test dataset of news articles, demonstrating strong predictive capability.

Movie Recommender System Using Content-Based Filtering | Python, Pandas, Scikit-learn, Streamlit, TMDB API **August 2024**

- **Content-Based Filtering**: Implemented a recommendation system using cosine similarity on metadata (genres, cast, crew), providing a ranked list of top 5 similar movies.
- **Streamlit Web App**: Developed an interactive interface using Streamlit, allowing users to receive real-time recommendations with 5 movie posters fetched from the TMDB API.

Technical Skills

Languages: Python, Java, C, C++, JavaScript, SQL, HTML, CSS, Shell scripting
Frameworks: REST API, React.js, Vue.js, JQuery, Django
Software Tools: VS-Code, Eclipse, Excel, AWS, Git, Jupyter Notebook, Verilog
Machine Learning & AI: PyTorch, SciPy, TensorFlow, Keras, Deep Learning, Data Visualization, Natural Language Processing

Certifications

- **Machine Learning Specialization – DeepLearning.ai**
- **Python Mastery**
- **Essential SQL Training**
- **Scum: The Basics**
- **NLP for GenAI (in progress)**