

SHUBHRANSHU

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OBJECTIVE

To leverage my machine learning expertise to develop innovative solutions and drive business growth. Proficient in Python and ML libraries for model development and deployment.

EDUCATION

Bachelors of Technology	United College of Engineering and Research, Prayagraj (Computer Science and Engineering)	Expected 2025 (63.75% current)
Intermediate (10+2)	MPVM Ganga Gurukulam (CBSE)	2021 (85%)
High School	MPVM Ganga Gurukulam (CBSE)	2019 (89%)

PROJECTS

U-Net architecture to accurately segment polyp within colonoscopy images June 2024 - July 2024

- Deep learning model for polyp detection from colonoscopy images.
- Utilised Python programming and its libraries (Tensorflow(, Keras, NumPy, Pandas, Glob, TQDM), Jupyter Notebook, U-Net Architecture.
- Collected and preprocessed images and segmentation masks. Resized, normalized, and augmented data. Split dataset into training, validation, and testing sets. Implemented a U-Net for segmentation with a contracting and expanding path. Used convolutional layers, max pooling, upsampling, and concatenation. Designed polyp segmentation models with U-Net. .
- Achieved high accuracy in polyp image segmentation. Effective performance is validated by evaluation metrics. Clear insights from segmentation result visualizations.

Convolutional Neural Network (CNN) to classify handwritten digits June 2024 - June 2024

- A CNN to classify handwritten digits from the MNIST dataset.
- Utilised Python programming and its libraries (TensorFlow, Keras, NumPy, Matplotlib, Pillow), Kaggle Notebook, Adadelta.
- Reshaped images, converted class vectors to binary classes, and normalized pixel values. Defined a sequential model in Keras with convolutional, MaxPooling, dropout, flatten, and dense layers. Compiled the model with categorical cross-entropy loss and Adadelta optimizer. Trained on the training data and evaluated performance on the test data.
- High accuracy in classifying handwritten digits. Demonstrates CNN effectiveness, provides a foundation for further exploration, and highlights potential OCR applications.

Text-Based Sentiment Analysis for Amazon Food Reviews June 2022 - June 2024

- Machine learning model to accurately classify Amazon food reviews as positive, negative, or neutral based on the reviews.
- Learned about Python libraries (Pandas, NumPy, Matplotlib), Kaggle Notebook, Natural Language Toolkit (NLTK) and Valence Aware Dictionary and Sentiment Reasoner (VADER).
- Employed Natural Language Toolkit (NLTK) and machine learning algorithms to analyze Amazon product reviews. Text data is preprocessed, and feature extraction techniques are applied. Machine learning models then classify the reviews into 'Positive,' 'Neutral,' and 'Negative' categories.
- Provides accuracy metrics and insights into customer sentiments, and businesses can make informed decisions to improve products, services, and the overall customer experience.

SKILLS

Computer Languages	C, Python.
Technical Skills	Machine Learning and Deep Learnign,Supervised and Unsupervised Learning, NLTK, OpenCV, Data Cleaning, Feature Engineering, Normalization, Pandas, NumPy, TensorFlow, Keras, Neural Networks, DBMS (MySQL), Tensorflow, Notebooks (Kaggle, Colab, Jupyter)
Soft Skills	Speaks English & Hindi, Problem-Solving, Adaptability, Organized, Teamwork, Presentations.

CERTIFICATIONS

- Accenture North America's Data Analytics and Visualization Job Simulation
- Google Cloud Apache Beam for removal of game toxicity
- Oracle Cloud Infrastructure 2023 Certified Foundations Associate