Abhay Pancholi

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EDUCATION

CSMSS CSCOE
BTech in Artificial Intelligence and Data Science
July 2021 - June 2024
CGPA: 8.48/10.0

LINKS

GitHub:// **AbhayPancholi**
LinkedIn:// **abhaypancholi**
Kaggle:// **abhaypancholi**
Coursera:// **Abhay Pancholi**

COURSEWORK

Probability and Statistics
Deep Learning
Machine Learning
Data Analysis
Cloud Computing
Computer Vision
Artificial Intelligence
Natural Language Processing
Computer Networks

SKILLS

Programming Languages
• Python • Java • R • SQL
Databases:
• MySQL• MongoDB
Data Science Tools
• Tensorflow • Scikit-Learn • Pandas • NLTK • OpenCV • Matplotlib • Seaborn • XGBoost • Scipy • PowerBI • Teableau • TFX • PyTorch • Transformers • GANs •VAEs •Tensorflow.js • TFLite • Deep Sort
Tools
• Git • GitHUb

CERTIFICATIONS

Machine Learning
Tensorflow Developer
NLP Specialization
Deployment
Data Analytics

EXPERIENCE

ABW IT SOLUTIONS PVT LTD. | RPA Developer
Mar 2023 - May 2023 | Aurangabad, MH
- A transformative 2-month internship played an instrumental role in conceiving and developing groundbreaking applications centered on Robotic Process Automation (RPA).
- Attained practical expertise across the entire application development lifecycle within the RPA domain, while successfully executing and delivering 4 distinct RPA projects throughout the internship.

PROJECTS

ROBUST HUMAN TARGET DETECTION AND ACQUISTION

- Created deep learning models using the YOLOv8 architecture to detect and classify 3 types of human actions—running, jumping, and walking—in video frames and images.
- Attained a precision rate of 92 percent for running and 89 percent for jumping actions on a dataset of 700 images, demonstrating the system's efficacy in identifying specific human movements.

TRANSFORMER-BASED TEXT SUMMARIZATION

- Built a text summarization model using the transformer architecture, incorporating both encoder and decoder components, achieving a final loss of 0.98 after 20 epochs.
- Preprocessed dialogue and summary datasets, utilizing custom tokenization and positional encoding, resulting in an average summary accuracy of 85 percent.

MEDICAL PLANTS IDENTIFICATION USING CNNS

- Achieved notably higher training and test accuracies compared to benchmark results from a related 2023 research paper, showcasing advancements in model performance.
- Improved research techniques, resulting in an accuracy of 99.65 percent, exceeding previous benchmarks through thorough data analysis and technology integration.

T5-BASED QUESTION ANSWERING

- Designed a question-answering model leveraging the T5 transformer, focusing on fine-tuning pre-trained models for improved performance on the SQuAD 2.0 dataset.
- Reached an accuracy rate of 88 percent after 15 epochs, demonstrating significant improvements in handling complex queries.

ACHIEVEMENTS

- Delivered a 20 percent improvement in training and validation accuracies over 2023 benchmark research results.
- Surpassed performance benchmarks set by previous research methods, with the proposed approach achieving 99.65 percent accuracy.