

ARYAN ABHIJIT DESHPANDE

B. Tech CSE (AI & ML) | Aspiring Data Scientist & AI/ML Engineer

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Summary:

AI & ML enthusiast currently pursuing B. Tech. in Computer Science. Completed various certifications in Applied ML, Cloud Computing, and Generative AI. Curious learner with a growing interest in AI, ML, and creative tech applications. Experienced in small projects involving NLP and neural networks. Always keen to combine explore new technologies and combine them with creativity.

Education:

- B. Tech. in Computer Science & Engineering (AI & ML Specialization): CGPA: 7.85
VIT Bhopal University, Sehore, Madhya Pradesh, India (2022-Present)
- 12th (CBSE): JSPM's Prodigy Public School, Pune, Maharashtra, India (2021-22) CGPA: 7.94
- 10th (CBSE): JSPM's Prodigy Public School, Pune, Maharashtra, India (2019-20) CGPA: 9.12

Technical Skills:

- Programming Languages: Python, Java (Intermediate proficiency).
- Databases: Basic knowledge of SQL.
- Concepts: Data Science, Artificial Intelligence, Machine Learning, Applied ML.
- Exposure To: Data Mining, Deep Learning (DL), Reinforcement Learning (RL), Natural Language Processing (NLP).
- Frameworks & Libraries: *PyTorch, Hugging Face Transformers, Scikit-learn, TensorFlow* (basic).
- Tools: *Jupyter Notebook, VS Code, Git, GitHub, Google Colab*.

Academic/Personal Experience through Projects:

1) RDR2 based Next Word Prediction using GPT-2 Model:

- Developed a next-word prediction system using the *GPT-2* language model fine-tuned on full dialogues and transcripts from the game *Red Dead Redemption 2*, that contained around 1.38 lakh lines and 5+ lakh characters in its dialogue and story script.
- The goal was to generate contextually relevant words based on in-game quotes.
- Trained GPT-2 on over 30,000+ words from RDR2 to achieve coherent next-word predictions for gaming dialogue simulations.
- Technologies Used: *Python, PyTorch, Hugging Face Transformers, Jupyter Notebook, VS Code*.
- GitHub Repository link: [GPT2 RDR2 NextWord](#).

2) SMS Spam Classifier using Hybrid RNN-CNN Model:

- Developed a hybrid text classification model combining *Convolutional and Recurrent Neural Networks* to identify spam messages from SMS datasets.
- Utilized *Conv1D* and *LSTM* layers to capture both local patterns and long-term dependencies in message text.
- Achieved 96% accuracy in classifying over 5,000 preprocessed SMS messages as 'Spam' or 'Ham'.
- Implemented data cleaning, tokenization, padding, and label encoding techniques as part of the NLP pipeline.
- Technologies Used: *Python, TensorFlow/Keras, LSTM, CNN, NLP, Jupyter Notebook*.
- GitHub Repository link: [SMS-Spam-Classifier-RNN-CNN](#).

Software & Creative Tools:

- Photo Editing: *Canva* (Mobile & Desktop), *Snapseed*, *PicsArt*, *Photo Layers*, *Text on Photo*.
- Video Editing: *DaVinci Resolve* (Desktop), *InShot* (Mobile).
- Strong grasp of visual editing on mobile platforms, experienced in manipulating photos and videos with precision and creativity.
- Familiar with *MATLAB* and *Simulink* from online courses (*Onramp*).
- *YouTube* Channel – “*ARYAN D.*” (*Gaming Content Creator*):
Created and edited gaming videos on titles like *GTA*, *Minecraft* and other *PC* games. Built a channel in June 2021 during COVID outbreak with currently 50+ subscribers. Developed skills on my own in video recording, editing, audio sync, thumbnail design, and viewer engagement using various tools, photo and video editors. Currently exploring advanced video techniques and content strategy for audience growth. *YouTube* Channel link: [@aryandeshpande1517](https://www.youtube.com/@aryandeshpande1517).

Certifications:

- Applied Machine Learning in Python – *University of Michigan* (*Coursera*).
- AWS Academy Graduate – Cloud Architecting – *Amazon Web Services*.
- AWS Academy Graduate – Cloud Foundations – *Amazon Web Services*.
- Generative AI using Watsonx – *IBM*.
- MATLAB Onramp and Simulink Onramp – *MathWorks*.
- Privacy and Security in Online Social Media – *NPTEL*.

Personal Interests & Soft Skills:

- Avid PC gamer with deep knowledge of gameplay mechanics, game design elements, lore, and release trends.
- Regular follower of technology and gaming news, leaks, modding, and digital content distribution (including official and unofficial channels).
- Enjoy watching and playing cricket; actively participate in discussions and matches.
- Skilled at traditional art including sketching, shading, and painting using pencils, watercolors, and acrylics.
- Regular user of *Reddit*; proficient in navigating online communities and discussions.