

NITESH KUMAR

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EDUCATION

- **Rajiv Gandhi Institute Of Petroleum Technology** Amethi, U.P
Bachelor of Technology - Petroleum Engineering; GPA: 7.03 Dec 2020-June 2024
Skills: Analysis Of Machine Learning Algorithms, Artificial Intelligence, Machine Learning, Data Science, Databases

SKILLS SUMMARY

- **Languages:** Python, C
- **Frameworks:** Scikit, NLTK, TensorFlow, Keras, opencv, Hugging face
- **Tools:** FastAPI, Web scrapping, MySQL, Linux, OpenAI, NLP, Computer vision
- **Platforms:** Windows, VS code, Jupyter Notebook, Google collab
- **Soft Skills:** Leadership, Event Management, Writing, Public Speaking, Time Management

EXPERIENCE

- **Healthiclick** Remote
Python Developer intern (Part-time) 8Jan 2024 - present
 - **Web Scarping:** Enhanced testing for a language translation ML model by scraping multilingual content using Python and BeautifulSoup.
 - **FTP pipeline:** Extracted FTP audio, transcribed with OpenAI whisper model, summarized data, and stored in MySQL via FastAPI endpoint. Ensured seamless integration by connecting to the database through Python code, enhancing data accessibility and processing efficiency.
 - **Automate video upload:** Automated video uploads on Twitter and YouTube using Tweepy and YouTube Data API. Developed a FastAPI endpoint for streamlined video uploading, enhancing automation and efficiency in content distribution..

PROJECTS

- **"Celebrity Image classification using SVM, Random Forest and Logistic Regression":**
- **Image Processing and Classification:** Utilized CV2 library for filtering celebrity images based on eye presence. Employed PyWavelet for feature extraction.
- **Model Training and Evaluation:** Split dataset for training/testing. Employed SVM, Random Forest, and Logistic Regression models for classification based on extracted features.
- **Performance Analysis:** Achieved 78% accuracy with SVM model. Visualized model performance using a confusion matrix. **Tech:** Machine Learning, Python, Computer Vision (CV2, PyWavelet), YOLO, OpenCV
- **"Trained a ML model to win 'hangman' game using NLP":**
- **Dataset Preprocessing:** Generated a list of words with each letter as an element. Created a character-to-index dictionary for word conversion.
- **Data Transformation:** Utilized one-hot encoding to convert the dataset into 3D format. Applied padding for input-output dimension matching, resulting in a training set of 273000*28*26 dimensions.
- **Model Training:** Trained LSTM and Transformer models for word generation. Optimized with 'adam' optimizer and 'MSE' loss for LSTM. Integrated word2vec for embeddings and NLP techniques. **Tech:** Machine Learning, Deep Learning, Big Data, Word2Vec, Transformer, NLP.
- **Prediction of porosity using well logs and machine learning and deep learning:**
- **Data Cleaning:** Preprocessed selected well log from Sweden by removing conflicting rows for data consistency.
- **Feature Selection:** Reduced dataset dimensionality by removing irrelevant well logs, focusing on relevant features for porosity prediction.
- **Transfer Learning:** Trained deep learning model on one well log dataset and fine-tuned on three additional datasets. Achieved 0.88 accuracy when tested on a fourth well log. **Tech:** Well Logs, Machine Learning, Data Visualization, Deep Learning, Python, Transfer Learning

HONORS AND AWARDS

- Top 2 percentile in JEE ADVANCE qualified JEE Mains - Oct-2020
- Merit-cum mean scholarship at RGIPT 2020-2024
- Got selected for EAGE Mentor-mentee program Dec 2023

VOLUNTEER EXPERIENCE

- **Vice-President at EAGE RGIPT student chapter** Raebareli, India
I conducted event related to petroleum, computer science and other branches. may2023 - Present
- **Event management head at SPE RGIPT student chapter** Raebareli, India
Conducted PPO event and organized a interaction session with seniors; jun 2022 - May 2023
- **Cricket captain of RGIPT cricket Team**