Saksham Sharma

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Profile Summary

- **Pursuing Masters in CSE(Data Science) from IIIT, Una. Skilled in AI, Deep Learning, Data Analysis, and Data Visualisation. Worked with Python, R, C++, Java, and frameworks like TensorFlow and PyTorch. Worked on projects in NLP, Computer Vision, and Data Modeling, always eager to learn more**:

Education

- **Indian Institute of Information Technology, Una** — Himachal Pradesh, India
  Master of Technology - CSE(Data Science) — *August 2024 - Present*
  Skills gained: *Advanced SQL, Excel, Tableau, Exploratory Data Analysis, Data Science Algorithms, Time Series, NLP, CV*

- **Vellore Institute of Technology** — Vellore, India
  Bachelor of Technology - Computer Science and Engineering — *July 2018 - July 2022*
  Courses: *Artificial Intelligence, Machine Learning, Image Processing, Data Visualization*

- **GSSS Mubarikpur** — Himachal Pradesh, India
  12th ; Science - Non-Medical ; 94.6 % — *Apr 2016 - Mar 2017*

- **DAV Ambota** — Himachal Pradesh, India
  10th ; CGPA 9.2 — *Apr 2014 - Mar 2015*

Skills Summary

- **Languages**: Python, R, C++, Java
- **Frameworks**: TensorFlow, PyTorch, FastAI, Keras, Scikit-Learn, Optuna
- **Tools**: Tableau, Power BI, Excel, MySQL
- **Relevant Skills**: Data Analysis, Data Modelling, Exploratory Data Analysis(EDA)

Projects

- **IDENTIFYING KEY PHRASES IN PATIENT NOTES(NLP)**: Using Various NLP techniques, our task is to identify the key phrases from the text data from patient health notes (Mar '24 - Present)
  Languages and Tools used: Python, RNN, TensorFlow, Keras, PyTorch, FastAI
- **IMAGE RECOGNITION AND CLASSIFICATION ON CIFAR-10 DATASET(Computer Vision)**: Performing Image Recognition and Classifying the images into 10 different types of classes using different frameworks and checking which framework works best(Mar '24 - Present)
  Languages and Tools used: Python, TensorFlow, Keras, PyTorch, FastAI, Transfer Learning
- **TEXT SUMMARIZATION (CAPSTONE PROJECT,NLP)**: Performed Text Summarization (Both Abstractive and Extractive) , Used various algorithms like BERT and GPT , Used TensorFlow framework on Google Colaboratory platform (Jan '22)
  Languages and Tools used: Python, RNN, Transformers, BERT
- **PERFORMING SUPER-RESOLUTION ON IMAGES(Computer Vision)**: Performed Super-Resolution on low-res images, Used SISR (Single Image Super-Resolution) technique, Used Deep Learning approaches such as CNNs (Nov '20)
  Languages and Tools used: Python, CNN
- **IMAGE ANALYSIS OF MRI BRAIN TUMOR IMAGES USING CNN(Computer Vision)**: Classifying Tumors as Malignant or Benign, Image Classification done using CNN and Fuzzy c means, Used Histogram Equalization for Image Enhancement (July '20)
  Languages and Tools used: Python, CNN
- **GRAYSCALE IMAGE COLORIZATION(Computer Vision)**: Colorizing Grayscale Images using OpenCV, Used Deep Learning approach of CNNs,Used VGG-16 CNN model based on the classification with the loss of cross entropy. (July '20)
  Languages and Tools used: Python, CNN, VGG-16 Arch.
- **RETRIEVING COLOR AND TEXT COMPONENTS FROM IMAGE(Computer Vision)**: Image features are extracted using CLD and Gabor texture descriptor, Used Histogram Of Gradient(HOG), Used Euclidean Distance for similarity measure of images(July '19)
  Languages and Tools used: Python, OpenCV

Achievements and Certifications

- GATE DA 2024: 78.3 %ile: LINK
- State rank 16th in 12th Standard: LINK
- Neural Networks and Deep Learning (COURSERA): LINK
- Mathematics for Machine Learning and Data Science Specialization (COURSERA): LINK
- More on my LinkedIn