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ACADEMIC DETAILS

Examination	University	Place	Year	CGPA/%
B.Tech CSE	*Graphic Era Hill University*	Dehradun, U.K.	Current	8.78
CBSE	Doon International School	Dehradun, U.K.	2020	92.4
CBSE	Doon International School	Dehradun, U.K.	2018	94.8

FIELDS OF INTEREST

- Machine Learning
- Artificial Intelligence
- Web Development

TECHNICAL SKILLS

- **Languages** (Python, C, C++, Java, Javascript)
- **Operating System** (Linux, Windows, MacOS)
- **Cloud Platforms** (Amazon AWS, Microsoft Azure)
- **ML/AI Python Modules** (numpy, pandas, scikit-learn, nltk, polars, seaborn, plotly, cufflinks and spark)
- **Deep Learning:** (Tensorflow, Keras, PyTorch)
- **Neural Networks:** (ANN, CNN, LSTM, RNN)
- **LLMs and GenAI** (OpenAI GPT 3.5, Gemini, Llama, Gemma and Langchain)

MAJOR PROJECTS

- **Customised Multimodal AI Chatbot using Generative AI**
  Created a multi-modal AI chatbot using **Google Gemini Pro API** that helps to chat with PDF document files
- **Time Series – Stock Market prediction using LSTM neural network**
  Developed a stock market price prediction time series model that predicted closing stock price **LSTM neural network** in Python
- **Skin Lesion and Cancer Classification using Python**
  Developed a skin lesion classifier model that uses **Convolutional Neural Networks** and image processing in Python to successfully predict if a skin lesion is malignant or benign with an **accuracy of 92%**
- **Handwritten Digit Recognition using Artificial Neural Network**
  Developed a **custom artificial neural network** from scratch in Python to classify handwritten digits with an accuracy of 82%
- **Facial Emotion Recognition (FER) using OpenCV and Convolutional Neural Network (CNN)**
  Developed an FER Model with an accuracy of over 90% that accurately deciphers complex emotional cues from facial expressions

- **Portfolio Website using ReactJS**

Created a dynamic and fully responsive portfolio website using ReactJS

CERTIFICATIONS

- **Generative AI with Large Language Models (Deeplearning.ai)**
  Understanding and implementation of Large-Language models and Generative AI fundamentals
- **Deep Neural Networks with PyTorch**
  Developed functional understanding of fundamentals of Machine Learning and different neural networks like dense ANN, CNN, RNN and LSTM
- **Data Structures and Algorithms in C++ (Certification – UN-recognised Saylor Academy)**
  Functional understanding of: Arrays, Stacks, Queues, Strings, Linked List, Trees, Graphs, Greedy & Dynamic Programming
- **Full Stack MEAN (Mongo DB, Express.js, Angular.js, Node.js) Development (Certification - Coursera)**
  Developed fundamental understanding of MEAN stack and completed a full stack project consisting of a secure web application using MEAN stack
- **Machine Learning in Python - (Certification - Bootcamp from Udemy)**
  Mastered key data science & AI concepts such as EDA, PCA, Regression, Classification, Deep Learning, Natural Language Processing & Big Data processing using Spark

ACHIEVEMENTS

- Won Inter college hackathon “Hack-O-Holic” organised by Graphic Era Hill University (Ranked 1st among 150 teams)
- Solved 600+ questions on LeetCode, CodeChef, CodingNinjas and GeeksForGeeks
- Gold medallist in Inter-school General Knowledge Quiz hosted by Vodafone (Class – 8^{th})
- Led the school cricket team to victory in inter-school matches against Rashtriya Indian Military College and others