

AVINASH KUMAR

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EDUCATION

B.Tech Computer Science IIITDM KURNOOL	-	📅 2020/2024 CGPA : 8.16(4 semesters)
INTERMEDIATE NARAYANA JUNIOR COLLEGE	-	📅 2018/2020 CGPA : 9.63
HIGHSCHOOL SAI CONCEPT SCHOOL	-	📅 2017/2018 CGPA : 9.5

PROJECTS

Title - Apparel Product Recommendation System

- Applied Natural Language Feature Engineering and built a content based recommendation system using NLP Models (Bag of words and TF-IDF) in problem of recommending similar products on e-commerce websites by using Amazon product advertising API. Tech Stack - Python, BoW, TF-IDF, Word2Vec, NLP

Title - Face Recognition System

- Applied K Nearest Neighbour classification algorithm in face recognition using opencv and HaarCascades CNN Model for frontal face detection. Tech Stack - Python, ML(KNN), OpenCV

Title - Handwritten Digit Recognition

- Applied K Nearest Neighbours Algorithm in recognizing handwritten digits (0 to 9) from the MNIST dataset.
- Developed a system from scratch which includes a machine to understand and classify the images of handwritten digits as 10 digits (0-9). Accuracy of the model was around 98%. Tech Stack - Python, ML(KNN), OpenCV, MNIST Database

Title - Dominant Color Extraction

- Applied K Means Clustering Unsupervised Algorithm in Segmenting an image into set of K Dominant Colors.
- Extracted the K Dominant Colors from the image and then re-colored it using those K Colors. Tech Stack - Python, ML(K-Means), OpenCV

Title - Word Analogies

- Solving Word Analogies by representing Words as Vectors using Google Pretrained Deep Learning Model, Word2Vec
- Trained the Word2Vec model using Gensim's implementation of Word2Vec. Used Gensim, a python toolkit which helps with vector-space and topic modeling to create a model that solved analogies. Tech Stack - Python, Word2Vec

Title - Air Quality Prediction

- Predicted Pollution Levels by building linear regression model, designed a machine learning model which can predict the air quality index. Tech Stack :- Python, ML (Linear Regression)

Title - Diabetes Classification

- Build a classifier which can classify if a person is diabetic or not, based on some features. Performed exploratory data analysis on health to gain the domain knowledge and built a binary classifier. Tech Stack :- Python, ML Algorithm

Title - Email Sending Using Python

-Sending Email using SMTP library

Title - Ecommerce Website

Build a Ecommerce website Using HTML , CSS , JS, Bootstrap

TECHNICAL SKILLS

- **Programming Languages:** C/C++(Proficient), Python
- **Hardware :** Iverilog
- **Courses :** Matlab, Data Structures And Algorithms
- **Framework/Libraries:** React,Angular
- **Data Science:** NLTK, NLP, Standard ML Algorithms (Regression, Classification, Clustering)
- **Databases:** MySQL
- **Data Analysis:** Numpy, Pandas, Matplotlib
- **Frontend:** HTML5, CSS3, Bootstrap, JS
- **Backend:**Nodejs , Php ,

HONORS AND AWARDS

- Solved over 300 problems on coding platforms - Codechef | Leetcode | Hackerrank | Interviewbit|Coding Ninjas

PASSION

Maths, Problem Solving