

Saksham Jain

Bengaluru, Karnataka | +91 7625025185 | sakshamjain196@gmail.com | [LinkedIn](#) - Saksham Jain | [Github](#) - SakshamJain13

SKILLSET

Hard Skills: Artificial Intelligence, Machine Learning, Deep Learning, Computer Vision, Data Analysis, Data Cleaning, Web Scraping

Programming Languages: Python, C/C++, Java

Tools and Frameworks: Streamlit, Tensorflow, OpenCV, Tableau, MySQL, PostgreSQL, Google Looker, PowerBI

Other Technical Skills: Google Cloud, Microsoft Office Suite

Soft Skills: Problem Solving, Communication, Prioritization, Team-Player, Adaptability

PROJECTS

Content-Based Movie Recommendation System

This movie recommendation algorithm uses the content (metadata) of the movie such as director, keywords, actors and genres to find the optimal recommendations.

- Used Tf-Idf Vectorizer to convert the words into feature vectors.
- Created a matrix that uses cosine similarity to find similarity between movies.
- Used Streamlit to create a web app that takes a single movie as an input and recommends 5 movies based on similarity.

Twitter Sentiment Analysis

Sentiment analysis on an inputted topic using tweets accessed through Twitter API.

- Used the tweepy library to access live tweets from Twitter. I pulled 100 tweets that were based on the user input.
- Used nltk to clean the tweets and textblob library to find the sentiment (-1 to 1) as well as the subjectivity of the tweet.
- The user inputs the topic and the model shows the moving average of the topic's sentiment every 10 tweets.

Lung Disease Detection

A Convolutional Neural Network to classify the type of disease a patient has based on their chest X-ray.

- Trained a model on images that had the categories - Tuberculosis, Pneumonia, Covid-19 and Normal.
- Used Tensorflow and CUDA for increased speed through parallel processing using GPU cores.
- Model produced an accuracy (validation) of 93% even without the cleanest images.
- Tried using transfer learning but it did not boost the accuracy.

WORK EXPERIENCE

SkillVertex

Remote

2020

A one month Data Science internship in which I made two projects -.

FIFA player analyzer - Data Analysis of FIFA players using Python which brought insights such as European countries being the ones who pay their players the most, Asian countries having the shortest players, etc.

-*Skills Acquired* - Data Analysis, Data Pre-processing, Data Visualization, matplotlib, seaborn

Employee Salary Predictor - Create a model that would predict the salary of an employee and also if they would get a promotion. This was used various features including KPIs, team score, manager score, etc.

-*Skills Acquired* - Classification, Regression, Data Pre-processing, Data Visualization, Linear regression, Logistic Regression

EDUCATION

Vellore Institute of Technology, Vellore

B.tech in Computer Science Engineering with Specialization in Data Science

(with interest in Data Engineering)

CGPA - 8.47

CERTIFICATIONS

Data Science live projects from Artifintel

A one month Data Science course which helped me learn the basics of Data Science and the life cycle of a Data Science project from data ingestion to model deployment. Learned about data, various Python modules and many machine learning algorithms and their working.

Google Data Analytics Professional Certificate

It taught me various skills which I applied in my projects and college assignments.

- Learned data visualization using Tableau and R (ggplot2)
- Made a capstone project which helped me analyze the sales of an American laundromat service and what places would spending money on marketing be the most useful.

Google Cloud Computing Foundations

Completed the Google Cloud Foundations course which taught me about-

- Cloud Computing Fundamentals - Made a VM, learned about Kubernetes Engine, used Cloud Functions and App Engine
- Infrastructure in Google Cloud - Learned about cloud storage, APIs, Pub/Sub and IAM
- Networking and Security in Google Cloud - Learned about VPCs, Load Balancers, Terraform and IAC
- Data, ML and AI in Google Cloud - Learned about Dataflow, DataProc, DataPrep, VertexAI, AutoML, APIs