SANJAY KUMAR M

Data scientist | Machine learning Engneering
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EDUCATION

BCA (COMPUTER APPLICATION)

Thanthai Periyar Arts & Science college
2022-**2025** | CGPA :78.68

Soma Sundaram Chettiar HR SEC SCHOOL

COMPUTER SCIENCE TOP SCORER
Grad. May 2022 | Cum Per : 96.79

LINKS

Github://got-sanjay
Linkedin://gotsanjay

SKILLS

Programing:C,C++,Python,Javascript,HTML, CSS,SQL,php

Frameworks/Libraries:Django,Bootstrap,Pandas, NumPy,SKLearn,Tensorflow,OpenCV

Tools & Platforms: VS code,Jupyter notebook,Intellij,git

COURCEWORK

Machine Learning
Data Stucture And Algorithm
Graphic Design
Data Science

STRENGTHS

- **Attention to detail:** Ensuring accurate data labeling, preprocessing, or debugging models.
- **Problem-solving:** Overcoming challenges in design, which translates to solving complex problems in data science.
- **Creativity:** Innovation in approaching machine learning problems or visualizing data in an insightful way.
- **Analytical thinking:** Interpreting design metrics or feedback, which helps in analyzing data for insights.

SUMMARY

- Data enthusiast currently pursuing a BCA degree from EVR College, with a strong focus on Machine Learning, Natural Language Processing (NLP), and Deep Learning. Proficient in Python and skilled in applying advanced AI techniques to solve real-world problems. Eager to leverage machine learning to drive innovation in the field of artificial intelligence.
- Actively seeking opportunities to contribute to projects that require expertise in machine learning, with a strong commitment to continuous learning and excellence. Looking to collaborate with dynamic teams to deliver impactful solutions and build end-to-end AI systems.

EXPERIENCE

DIGI PLUS | PROJECT TRAINEE [INTERN]

Oct - Nov 2024 | Trichy, india

GRAPIC DESIGN

- Collaborated with cross-functional teams to create visually engaging digital content for Digi Plus's internal and external communications, ensuring brand consistency across **20+ product** Poster.
- Designed high-quality graphic assets (banners, infographics) for Digi Plus's marketing campaigns, boosting engagement by 25%.
- Utilized Adobe Creative Suite (**Photoshop, Illustrator**) to craft creative designs that align with the company's vision and target audience.

PROJECTS

RESUME PARSER | PYTHON | NLP | NLTK | SPACY | PDFPLUMBER

- Developed a **Python-based resume parser** to automatically extract key sections, including the **Executive Summary**, from resumes in various formats (PDF, DOCX).
- Utilized **spaCy** for named entity recognition (NER) and **NLTK** for text preprocessing and sentence segmentation, improving accuracy in extracting relevant sections.
- Implemented **keyword matching** and **text segmentation** techniques to identify and extract the **Executive Summary**, optimizing the recruitment process for candidate selection.
- Built an intelligent parsing system capable of handling complex resume structures and providing concise summaries of candidate qualifications and career objectives.

EARTHQUAKE PREDICTION USING MACHINE LEARNING | PYTHON | SCIKIT-LEARN | ARIMA

- Developed a **Python-based earthquake prediction model** using historical seismic data to predict the likelihood and magnitude of future earthquakes.
- Utilized **Scikit-learn** to implement machine learning models like **Random Forest** for earthquake classification and **regression models** for magnitude prediction.
- Applied **ARIMA (Auto-Regressive Integrated Moving Average)** for time-series forecasting, predicting the occurrence and magnitude of earthquakes based on past seismic data.
- Preprocessed large-scale seismic datasets from sources like USGS, including cleaning, feature engineering, and normalization for improved model performance.
- Visualized predictions and trends using **matplotlib** and **seaborn**, enabling better understanding of seismic activity patterns and regions at higher risk.

PNEUMONIA PREDICTION USING DEEP LEARNING | PYTHON | CNN | MEDICAL IMAGING

- Developed a Deep Learning-based model to predict pneumonia from chest X-ray images using Convolutional Neural Networks (CNNs).
- Leveraged TensorFlow and Keras to build and train a CNN model that automatically classifies X-ray images as either pneumonia-positive or normal
- Fine-tuned the model with hyperparameter optimization to achieve high accuracy, sensitivity, and specificity in pneumonia detection.
- Applied transfer learning using pre-trained models (e.g., VGG16, ResNet) to enhance prediction accuracy and reduce training time.