SANJAY KUMAR M

Aspiring Machine Learning Engineer | Deep Learning & MLOps Enthusiast
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EDUCATION

BCA (COMPUTER APPLICATION)

Thanthai Periyar Arts & Science college
Graduated: May 2025 | CGPA :7.68/10

HSC – Computer Science

Soma Sundaram Chettiar HR SEC SCHOOL
Percentage: 80% | School Topper in Computer Science

LINKS

got-sanjay.github.io/portfolio/

github.com/got-sanjay/

SKILLS

Programing: Python

Frameworks/Libraries: TensorFlow, Keras, Scikit-learn, OpenCV, Pandas, NumPy, Flask, Bootstrap

Tools & Platforms: VS code, Jupyter notebook, GitHub

Concepts: CNNs, Transfer Learning, Time Series (ARIMA), NLP (NLTK)

COURSEWORK

Machine Learning

Graphic Design

Data Structure And Algorithm

Machine Learning Operations for Generative AI

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

- Recently graduated BCA candidate from Thanthai Periyar Arts & Science College with a strong foundation in Machine Learning, Deep Learning, and NLP. Skilled in Python, TensorFlow, Keras, and Flask with practical experience building and deploying AI-driven applications.
- To leverage my skills in AI and MLOps to contribute to real-world projects that solve complex problems using data-driven approaches. Eager to join a collaborative team where I can apply and expand my machine learning expertise, grow as a professional, and deliver impactful AI solutions across industries.

EXPERIENCE

DIGI PLUS | PROJECT TRAINEE [INTERN]

Oct - Nov 2024 | Trichy, india

GRAPHIC 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.

SKIN DISEASE CLASSIFICATION USING DEEP LEARNING | PYTHON | FLASK | DLOPS | KERAS

- Built a real-time image classification web app to predict skin diseases using Convolutional Neural Networks (CNNs)
- Applied transfer learning (INCEPTION NET) to improve accuracy and reduce training time
- Integrated LLM (OpenAI API) for generating medical suggestions based on predictions.
- Deployed the solution using Flask with a responsive front end, image auto-deletion via APScheduler, and support for both webcam capture and gallery upload.