

ANANDAPADMANABHAN S

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PROFILE

A passionate Data Engineer with expertise in data analysis, machine learning, and deep learning. Experienced in deploying deep learning models in portfolio web apps, building data pipelines, and working with large datasets. Proficient in cloud platforms, data visualization, and backend development, focusing on creating scalable, efficient data-driven applications.

TECHNICAL SKILLS

- Programming Languages: Python, SQL
- Techniques: Data Preprocessing, Data Augmentation, Model Development, Testing, Analysis, Optimization, UI Development, Image Processing, Pattern Recognition
- Machine Learning and Deep Learning Libraries and Frameworks: NumPy, Pandas, Scikit-learn (sklearn), Matplotlib, Seaborn, Plotly, OpenCV, TensorFlow, Keras, PyTorch
- Development and Deployment Tools: Docker, Git, GitHub, VS Code, Streamlit, GCP, AWS, CI/CD, Tableau

EXPERIENCE

Artificial Intelligence Intern [↗](#)

SkillForge (Remote) - Sep, 2024 - Nov, 2024

- Completed a two-month AI internship involving both structured training and hands-on project work.
- Gained practical experience in Python, Artificial Neural Networks, and Convolutional Neural Networks.
- Worked on 1 minor and 1 major project addressing real-world challenges in AI and deep learning.
- Developed expertise in data analysis, image processing, and neural network design.
- Awarded with a Certificate of Outstanding Performance for excellence during the internship. [↗](#)
- Received a Letter of Recommendation from the Head of Operations for exceptional performance, strong dedication, and impactful contributions. [↗](#)

PROJECTS

CNN-RNN Hybrid Model for Temperature Prediction - Live Demo [↗](#)

- Developed a CNN-RNN Hybrid Model for time-series forecasting to predict daily temperatures based on historical weather data.
- Built an interactive web app using Streamlit, enabling users to input real-time weather data for next-day temperature predictions.

Streamlit Deep Learning Portfolio App [↗](#)

- Deployed multiple deep learning models demonstrating real-world applications of AI and ML:
- Customer Churn Prediction: Predicting customer churn using Artificial Neural Networks (ANN). Model [↗](#)
- Credit Card Fraud Detection: Identifying fraudulent transactions with ANN. Model [↗](#)
- MNIST Digit Recognizer: Classifying handwritten digits using Convolutional Neural Networks (CNN). Model [↗](#)
- Fashion MNIST Classifier: Classifying fashion items with CNN. Model [↗](#)
- This portfolio showcases my expertise in deep learning, model deployment, and user-friendly interfaces.
- Technologies used: Python, Streamlit, TensorFlow, Keras, CSS

Superstore Sales Insights Dashboard - Tableau [↗](#)

- Developed an interactive Tableau dashboard to analyze sales performance, profitability, and regional trends.
- Live Dashboard [↗](#)

YouTube Summariser Web App [↗](#)

- Developed an interactive web application as part of a college project to summarize YouTube videos, leveraging Natural Language Processing (NLP) to generate concise overviews in under 30 seconds.
- Technologies Used: Python, Streamlit, gTTS, Gensim, SQLite, Generative AI, YouTube Transcript API
- Key Achievements: Integrated real-time transcript fetching and summarization.

RPS Game

- Developed an interactive Rock, Paper, Scissors game that integrates computer vision & gesture recognition.
- Technologies Used: Python, OpenCV, cvzone HandTrackingModule

COURSES AND CERTIFICATES

- Artificial Intelligence with Python Course - SkillForge [↗](#)
- Python for Data Science & Machine Learning: Zero to Hero - Udemy [↗](#)
- Python & TensorFlow: Deep Dive into Machine Learning - Udemy [↗](#)
- Data Science using Python Masterclass - SCALER [↗](#)
- Tableau for Data Science Masterclass - SCALER [↗](#)
- Fundamentals of Docker & Kubernetes Masterclass - SCALER [↗](#)
- AI/ML FOR GEODATA ANALYSIS – 144TH IIRS OUTREACH PROGRAMME, ISRO [↗](#)

EDUCATION

B.Tech in Information Technology Cochin University College of Engineering, CUCEK, CUSAT	June, 2024 Alappuzha, India
Diploma in Computer Engineering Carmel Polytechnic College	April,2021 Alappuzha, India
S.D.V.B.H.S.S 12th - HSE	March, 2018, Alappuzha, India
St. Aloysius Senior Secondary School 10th - CBSE	May, 2016, Alappuzha, India

NON-TECHNICAL SKILLS

Problem-Solving, Critical Thinking, Attention to Detail, Communication, Collaboration, Time Management

LANGUAGES

ENGLISH, MALAYALAM, HINDI, TAMIL