

Deepchand O A

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TECHNICAL SKILLS

- **Programming Languages** : Python, SQL, C, Javascript
- **Machine Learning** : Pandas, Numpy, Scikit-Learn, PyTorch, TensorFlow, NLTK, Spacy, OpenCV.
- **Development & Version Control** : Git, MLflow, Docker.
- **Generative AI** : Langchain, Gemini, Llama, Llama Index, OpenAI, HuggingFace.
- **Web Development** : HTML, CSS, FastAPI, Streamlit, Flask, ReactJs, MongoDB, ExpressJS, NodeJS
- **Cloud** : AWS - EC2, Elastic Beanstalk.
- **Data Visualization & Microsoft Tools** : Seaborn, Matplotlib, Tableau, Excel, PowerPoint, Word.

WORK EXPERIENCE

Zummit Infolabs (Feb. 2024 - May 2024)

Machine learning intern

- Led a team in developing Generative AI applications for international clients, successfully delivering innovative solutions that enhanced customer engagement and satisfaction across multiple industries.

Neyveli Lignite Corporation India Limited Neyveli, India

Data Science Intern (May 2023 - June 2023)

- Performed analysis and visualizations of energy management system data, building machine learning models to predict future energy consumption, contributing to a 20% improvement in energy efficiency

Hyundai Motors India Limited Chennai, India

Machine learning Intern (Dec. 2022 - Jan. 2023)

- Analyzed various damage-causing events in the assembly line, focusing on the most frequent issues with electrical connectors. Developed a solution using computer vision and a CNN model to classify working and damaged connectors (pin bends), achieving an accuracy rate of 95% and reducing assembly line defects by 30%

In-Lab Intern TCE, India

Summer Programming Intern (May 2022 - June 2022)

- Proficient in C and Python programming languages, with hands-on experience in developing basic applications using Python's Tkinter for GUI development.
- Skilled in building applications with Raspberry Pi, including developing an automated coffee vending machine controlled via a mobile device.

PROJECTS

AI - Assistant J.A.R.V.I.S ([Video Link](#))

TECH STACK : pyaudio, numpy, SpeechRecognition, langchain, playsound, pillow, GEMINI

- Developed J.A.R.V.I.S, a GEMINI-powered personal AI assistant capable of fluent voice interactions and executing voice commands to open various applications, enhancing user convenience and productivity.

AI-Tutor (Gen-AI) ([Github link](#))

TECH STACK : Python, Gemini-pro, Langchain, Streamlit, PyPDF2, Github, CSS

- Developed an LLM-powered tutor application using Google's Gemini, which converts user-provided PDFs into multiple-choice questions, conducts tests, provides scores, and offers detailed explanations for each answer, thereby enhancing the learning experience.

Rain Prediction (AWS) ([Github Link](#))

TECH STACK : Python, Pandas, Tensorflow, Scikit-learn, Mlflow, Streamlit, Docker, Github, AWS EC2

- Trained an Artificial Neural Network (ANN) using historical weather data to predict the probability of rain, and deployed the model to an AWS EC2 instance utilizing a CI/CD pipeline for continuous integration and deployment.

ACHIEVEMENTS

- Extension of range in electric bike : Patent Number: 528864
- GATE Computer Science 2024 Qualified

CERTIFICATIONS

- **Udemy** : Machine Learning with Python.
- **Udemy** : Pytorch for Deep Learning.
- **Udemy** : TensorFlow2 and Keras for Deep Learning.
- **HackerRank** : SQL
- **NPTEL** : Database Management System
- **Udemy** : Computer vision using OpenCV, YOLO

EDUCATION

- **Bachelors in Electrical and Electronics** (July 2020 - May 2024)
Thiagarajar College of Engineering (CGPA 9.1)