



Coimbatore



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INDHUMATHI SUBRAMANIAM

SKILLS

Machine Learning / Deep Learning

- **Tools & Techniques:** Python, LangChain, OpenAI, Replicate, Transformer Models, LLMs, OpenCV, NLP, OCR, TensorFlow, Keras
- **Data Analysis:** Pandas, NumPy, Scikit-Learn, BeautifulSoup, Matplotlib, Seaborn

Web Frameworks

- FastAPI, Django, Pytest

Databases

- MySQL, PostgreSQL, Redis, Vector Databases, MongoDB

Cloud Deployment and Containers

- Google Cloud Platform (GCP)

Repository

- GitHub, Bitbucket

Project Management

- Jira Software, Confluence

Operating Systems

- Windows, Linux

IDEs & Tools

- **IDE/Editors:** Visual Studio Code, Jupyter Notebooks, Google Colab
- **API Testing:** Postman, Swagger

Other Tools

- Microservices Architecture, Prompt Engineering

PROFILE

Quality-oriented Machine Learning Engineer, aiming to leverage skillset effectively in the field of software while contributing to the growth of organization.

EXPERIENCE

Software Engineer

Innoboost Technologies | Coimbatore | May 2022 – Present

Backend Developer | Diligence GPT (A&M) | Jun'24 – present

- Developed core functionalities of Diligence GPT, a diligence analysis tool for companies, enabling financial, functional, and benchmark analysis.
- Implemented Azure Blob Storage for file management and integrated a vector database for efficient document retrieval and analysis.
- Designed and optimized APIs while collaborating with UI and AI service teams to ensure seamless integration and functionality.

Backend Developer | SalesBot | Apr'24 – Jun'24

- Built a speech-to-speech AI system using Twilio APIs, enabling real-time audio interactions with TTS and STT functionality.
- Optimized AI pipelines for low-latency, high-quality live audio conversations.

Backend Developer | Equity | Feb'24 – Apr'24

- Scraping company details from the web using Selenium to gather comprehensive datasets.
- Cleaning and processing data with Python and FastAPI to ensure accuracy and completeness.
- Developing machine learning models using the cleaned data to predict market prices and other company-specific features, employing advanced ML techniques and tools.
- Managing PostgreSQL databases on GCP to ensure efficient, secure, and reliable data storage and retrieval.
- Visualizing data using multiple graphs and charts to provide clear and actionable insights into market trends.

EDUCATION

Bachelor of Electronics and Communication Engineering

Akshaya College of Engineering and Technology, Coimbatore-2015,
CGPA:6.8

CERTIFICATION

- **Machine Learning for All | Coursera**
| Feb'22 | Course Completed
- **Python Zero to Mastery | Udemy** |
Nov'21 | Course Completed

AWARDS

VBA Developer Award | Infosys |
Automation Training under CDP program

PROJECTS

Security Camera using Computer Vision

- System Security is designed for motion detection and webcam monitoring.

Information Extraction using OCR

- A model that extracts the information from the invoice using OCR.

Car Classification using Transfer Learning

- Applied transfer learning using RESNET50 to classify the car model from images of cars.

SOFT SKILLS

- Fast Learner
- Critical Thinking
- Time Management
- Communication Skills
- Adaptability
- Team Collaboration
- Leadership
- Creativity

EXPERIENCE

Software Engineer

Innoboon Technologies | Coimbatore | May 2022 – Present

Backend Developer | YUNI | Dec'23 – Feb'24

- Designed and deployed an integrated Replicate model for advanced image generation and enhancement.
- Fine-tuned the Replicate model to allow for tailored image processing, improving its versatility for specialized use cases.
- Showcased expertise in Prompt Engineering to efficiently manage and optimize image processing workflows.

Backend Developer | InSource | Nov'23

- Developed a chatbot leveraging OpenAI and LangChain to generate insights from PDF books, setting up database connections and application infrastructure from scratch.
- Automated repetitive tasks using Selenium, significantly improving data processing efficiency.
- Integrated Google Cloud for scalable and secure storage solutions, enhancing overall application performance and reliability.

AI/ML Engineer | CAIP - Conversational AI | May'23 – Oct'23

- Developed a Conversational AI platform utilizing advanced NLP techniques and Large Language Models (LLM) with Langchain, connecting the backend and front end via FastAPI.
- Leveraged Transformer-based models and integrated LLM models into the Google Cloud Platform for scalable deployment.
- Utilized Redis for caching to enhance response times, providing a faster and more efficient user experience.

Backend Developer | Inmar - FinTech Application | May'22 – May'23

- Played a key role as a Python Backend Developer in the development of INMAR, a Deduction Management Portal aimed at tracking and managing deductions raised by retailers against manufacturer invoices.

Senior Process Executive

Infosys | Bangalore | March 2017 – July 2020

- Provided friendly, easy to understand troubleshooting guidance for all inquiries resulting from handset or data devices and technical service issues.
- Resolving the Broadband/Email/Wireless Connectivity issues.