

# DIVYANSHU

## SUMMARY

Machine Learning Developer with 4+ years of experience in GenAI, NLP, and web scraping. Skilled in extracting structured insights from unstructured data and automating data pipelines. Expertise in team management, project architecture, and AI deployment. Seeking a full-time/part-time remote AI role to drive impactful solutions

## PERSONAL DETAILS

[Linked In](#)

[Gmail](#)

[Github](#)

[Youtube](#)

[Medium blog](#)

Phone no - +91 9470253422

Indian citizen

Patna, India

## EXPERIENCE

### Senior NLP Engineer (Oct 2024 – Present)

Emplay Inc., Bangalore, India

- Led a team of five to develop a contract extraction system, processing 2,000+ contracts per run with **OCR**, **ingestion**, and **extraction** services, **orchestrated** by a custom-built service.
- Developed and managed a document **Q&A bot flow**, integrating **RAGAS** monitoring for daily batch analytics.

### NLP Engineer (Oct 2023 – Oct 2024)

- Developed advanced web scraping pipelines, extracting data from protected pages using **cookies**, **headers**, and **proxies captured via a Chrome extension**.
- Led a small team to develop a generative AI extraction service using **Langchain**, **OpenAI**, and **FastAPI**, featuring a **Chrome extension**, **SharePoint** uploads, **CRM logging**, and **Airflow** integration for robustness.
- Led a team to develop the backend service for the **Catsim** test, designing architecture and translating client requirements into technical diagrams.

### Associate NLP Engineer (Dec 2022 – Oct 2023)

- Developed a **Setfit/Rasa-based NLU** service using few-shot learning, surpassing GPT-3 on the RAFT benchmark by 3 points, with **dynamic quantization** tripling inference speed. Created a **DVC**-based deployment setup for seamless transition across environments, supporting over **12,000 daily users**.
- Increased the speed of the spellcheck service by a **million times**.

### Systems Engineer (Aug 2021 – Nov 2022)

Tata Consultancy Services, Bangalore, India

- Fine-tuned **Neural Machine translation (Transformer model)** on Norwegian-English dataset and achieved **BLEU** score of **46.2** and developed **Flask API** for deployment.
- Wrote python scripts for **web-scraping**, utility functions for **NLP** and **Computer Vision**.

### Machine Learning Developer (Apr 2020 – Jun 2021)

Adverto, Jabalpur, India

- Worked on a **government site scraping and data matching project**, using **Scrapy** and **Selenium** to extract information and **Twilio** for **automatic OTP verification**.
- Created fabric defects detection and bank apps pop up detection and classification into various categories.

## PROJECTS

### NetrAI - Assistant for visually impaired (Aug 2019 - Mar 2020)

- Smart glass, App assistant for helping them in day-to-day problems.
- Worked on **TFlite**, Barcode detection (**ZBar**), Speech Recognition (**Google cloud speech API**), **PoseNet**, **Pyttsx3**, **Tesseract-OCR**, **OpenCV**, **face recognition**, **Microsoft Azure Computer Vision service** and deployed on **Edge devices**.

## ACHIEVEMENTS

### SMART INDIA HACKATHON 2020 - Finals selected

- Problem statement - PCI index calculation using computer vision. Top 5 teams selected for finals.

## TECHNICAL SKILLS

LLM, GenAI, NLP, Image Processing, Machine Learning, Deep learning, MySQL, Web Scraping, Robotics, CI/CD, Web Extensions

## LIBRARY/Framework/LANGUAGES

Langchain, Python, OpenCV, Keras, TensorFlow, Pandas, PyTorch, Scrapy, Airflow, NLTK, Seaborn, scikit-learn, tflite, Bootstrap, Docker, Hugging Face, REST API, AWS, Flask, Gradio, Streamlit, FastAPI, Diffusion models, MongoDB, Kubernetes, Nginx, Redis

## PLATFORMS AND MISC

ChatGPT, GitHub Copilot, Comfy UI, Cursor, Langsmith, Anaconda, Jupyter Notebook, Google Colab, VS Code, Unity (Vuforia SDK), Git, Kaggle Notebook,

## HARDWARES

Jetson Xavier, Coral Dev Board, Raspberry Pi, Arduino and its Modules, NodeMCU, Atmega

## CERTIFICATES

[DeepLearning.AI Tensorflow Developer](#)  
[Natural Language Processing with](#)  
[Classification and Vector Spaces](#)

## EDUCATION

B. Tech Mechanical Engineering Indian Institute of Information Technology Design and Manufacturing Jabalpur  
**CPI - 7.6 (2017-2021)**

## LANGUAGES

Hindi (Native Language)  
English

## INTERESTS

Travelling, PC Games, Astronomy, Video Editing, Anime