

# Paras Jain

Developer

## EXPERIENCE

eClerx, Pune — **Senior Software Engineer (April, 2022 - Present)**

### Key Responsibilities:

- Developed solutions and optimized existing systems using Python, AWS, and a diverse range of libraries to drive efficiency and innovation.
- Researched and successfully implemented state-of-the-art Large Language Models (LLMs) tailored to specific business use cases, enhancing natural language understanding and communication.
- Spearheaded data exploration, cleaning, and analysis to identify crucial features for model training, ensuring high-quality data-driven decisions.
- Proficient in developing and implementing APIs using Flask and FastAPI, enabling seamless integration with diverse applications to enhance system functionality and interconnectivity.

## PROJECTS

**Lip-reading Speech-to-Text**– Developer

**Technologies used:** Python, Matplotlib, TensorFlow, Sequential

- **Business Objective:** Developed a system to transcribe spoken language into text by analyzing lip movements in videos, enhancing accessibility and automating transcription.
- **Model Architecture:** Utilized TensorFlow and a Sequential model with specialized layers (Conv3D, MaxPool3D etc.) to interpret lip movement patterns for accurate speech-to-text conversion.
- **Advanced Model:** Fine-tuned the model by optimizing architecture and hyperparameters, incorporating domain-specific training data for enhanced accuracy.
- **Seamless Integration:** Seamlessly integrated the lipreading model with the user interface, enabling accurate transcription on specified test datasets and improving usability for the intended applications.

**Image Classification (CNN) to identify unmarked cement bags**

**Technologies used:** Python, Tensorflow, VGG-16, GitHub Actions, AWS, HTML & CSS

- **Customized Classification Model:** Developed a specialized image classification model, utilizing the VGG-16 architecture, to determine if a cement bag is unmarked within a production line.
- **Training with Diverse Samples:** Trained the model using a wide array of images, including both marked and unmarked cement bags, to ensure robust predictive capabilities.
- **Effortless Predictions:** Deployed the model on AWS EC2 instance, leveraging GitHub actions, to host an interactive user interface. This intuitive UI simplifies the process of identifying unmarked cement bags, enhancing production efficiency.

## EDUCATION

**Lovely Professional University, Jalandhar** — B. Tech - CSE

- (2018 - 2022) **CGPA** - 8.65

**Holy Child Public School, Faridabad** — 10th–12th Standard

- (2015 - 2018) **CGPA** - 8.6

## TECHNICAL SKILLS

- Python
- Amazon Web Services
- Power BI
- Git for Version Control
- SQL

## DATA SCIENCE SKILLS

- Machine Learning
- Deep Learning
- NLP
- Numpy & Pandas
- Data Analysis

## ACHIEVEMENTS

- AWS Certified - Solutions Architect Associate
- Recognition from CS APAC Director for consistent Quality.

## HOBBIES & INTERESTS

- Playing Chess
- Learning
- Reading

## CONTACT

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