

# AKANKSHA KAPIL

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## INTERNSHIP EXPERIENCE

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### Netra Scan Technologies Pvt Ltd

AI/ML Intern

Mumbai , Maharashtra  
15th December 2023 - 1st June 2024

- Developed a solution for Aadhar number masking by combining an object detection model, PyTesseract for OCR-based number extraction, and OpenCV for accurate masking regardless of orientation.
- Designed a Python pipeline interface with a progress bar to show the percentage of images masked and implemented dynamically generated CSV files to record filenames in each runtime-generated folder.
- Executed PDF data extraction of bank ledger information. Utilized Tabula for organized table structures and Camelot for more complex layouts, resulting in accurate and efficient extraction of data
- Developed a Voter ID identifier by collecting and labeling data, training an object detection model , and achieving high accuracy in identifying voter IDs from images.

### Flam

AI Intern

Bangalore,Karnataka  
12th May 2023 - 12th July 2023

- Developed proficiency in model training and successfully completed projects involving skin color detection, beard segmentation, facial feature masking, and hair dataset training.
- Applied transfer learning and fine-tuning techniques to improve model performance and accuracy.
- Utilized libraries and frameworks such as OpenCV, dlib, and pre-trained models like VIT, VGG, Inception, and ResNet to achieve optimal results in computer vision tasks.
- Familiar with advanced architectures like Unet, encoder-decoder models, and various algorithms for efficient model development and training.

## PROJECTS

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### Speech Emotion Recognition *Python, Tkinter, VS code, Google colab, Kaggle*

Preprocessed, extracted features, and augmented the RAVDESS audio dataset to classify emotions in speech. Implemented ensemble learning using a BiLSTM and GRU model with an attention mechanism. Other successful models included BiGRU with attention, ConvID BiLSTM with attention, CNN with residual connections and self-attention, and an ensemble of SVC, Decision Tree, RandomForest with CNN.

### AI Chatbot Development using MERN Stack and OpenAI API

Developed an AI chatbot using the MERN stack and OpenAI API, implementing secure authentication with JWT tokens and HTTP-only cookies. The project featured data validation with express-validator and chat storage in MongoDB. Built a modern React app with Vite and a responsive chat UI with Material UI. Integrated OpenAI to deliver a full-stack ChatGPT-like experience with secure user session management.

### Barcode Detection *Vs code*

Using OpenCV, developed a barcode detection algorithm that employs Sobel operator and morphological operations such as dilations and erosion.

### Churn Prediction *Google Colab*

Used variety of machine learning algorithms , including SVM ,decision trees and random forests, to predict customer churn using Telco dataset.

## EDUCATION

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**Mukesh Patel School of Technology Management & Engineering (NMIMS)** Mumbai , Maharashtra  
BTech IT Specialization in AI/ML *GPA: 3.56/4* August 2020 - June 2024

**Thakur college of science and commerce** Mumbai , Maharashtra  
Secondary Education in Science *GPA: 7/10* August 2018 - June 2020

**Ryan International School** Mumbai , Maharashtra  
10th *GPA: 8.5/10* April 2017 - May 2018

## SKILLS

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Python:	Machine Learning, Deep Learning, NLP, Computer Vision, Object Detection, Python interface
Containerization:	Basic Understanding of Docker.
Frontend Development:	HTML, CSS, React
Libraries:	Opencv, Numpy, Pandas, Linux/Ubuntu
Database:	SQL, MongoDB
Languages:	Python, C++