I am a senior developer with experiences of 9 + years in data processing & ML, web development, Mobile/Desktop App developments.

1. Data Processing & Machine Learning:

1) Object Detection:

- Developed models for detecting objects such as birds, logs, people, gender, bottles, cars, irises, etc.

- Conducted segmentation tasks, including carpet segmentation.

- Built specialized detection tools like Face Commander and Eye Commander.

- Performed microscopy image analysis using Cellpose.

- Specialized in object detection, counting, and tracking tasks.

1. OCR & Data Processing:

- Involved in several OCR-related projects, such as Causelist Project, Barcode & MCQ, and Voterlist Task.

- Optimized OCR and big data processing programs using new algorithms and threading techniques.

- Led the Women Minister Study Analysis, interpreting survey data to extract trends and patterns.

1. Predictive Modeling:

- Developed Education Prediction models using Artificial Neural Networks (ANN).

- Built a tool to predict centroids' location in new image datasets.

- Worked on V-JEPA Video Data Classification & Regression.

- Conducted research on Minimal UNSAT Cores Identification.

1. AI/ML Applications:

- Created web applications that host and analyze videos and images.

- Built AI Voice Clone and Face Clone technologies.

- Designed sentiment trackers for stock market analysis.

- Engaged in voice cloning technologies for various applications.

1. Live Recognition & NLP:

- Developed Fruit Live Recognition systems.

- Built a Language Corrector for real-time feedback.

1. Speech Recognition:

- Developed models and applications for speech-to-text and command recognition.

1. Web Scraping & Automation:

- Built a web service comparing products across Amazon, BestBuy, Costco (Backend: Flask, Frontend: React) using web scraping.

- Developed chatbots for Snapchat and Telegram, along with automation tools and analysis for bcgame.

8) GPT & LLM:

- Implemented large language models for various use cases.

9) Trading Analysis:

- Developed systems for stock and trading analysis.

Skills:

### 1. Data Processing & Machine Learning:

- Programming Languages:

- Python, R, MATLAB, C++, C#

- TensorFlow, PyTorch, Keras (for neural networks)

- OpenCV (for image processing)

- YOLO, SSD, Faster R-CNN, HOG + SVM

- OpenCV, TensorFlow, Keras

- Image segmentation (e.g., UNet)

- Microscopy image analysis (Cellpose)

- Tesseract, EasyOCR

- Pandas, NumPy, Dask (big data processing)

- NLTK, SpaCy (for text processing)

- Custom algorithm development for optimization and multithreading

- Artificial Neural Networks (ANN), Convolutional Neural Networks (CNN)

- Scikit-learn (classification and regression)

- V-JEPA (video data classification)

- Optimization techniques for model performance

- Deepfake frameworks, Wav2Vec, Tacotron

- GANs (Generative Adversarial Networks)

- DLIB (for facial recognition tasks)

- GPT-3, GPT-4, BERT, OpenAI APIs

- Natural Language Processing (NLP) libraries like SpaCy, Hugging Face Transformers

- Sentiment analysis using LSTM, BERT

- Speech-to-text frameworks: Google Speech API, Mozilla DeepSpeech

- PyDub (for audio processing)

- Selenium, Scrapy, BeautifulSoup (for web scraping)

- Financial data processing (using pandas, NumPy, yfinance)

- Backtesting libraries (e.g., Backtrader)

- Time series analysis (ARIMA, LSTM)