

VIDHYA E S

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Professional Summary

AI/ML engineer with practical expertise in natural language processing and computer vision. Proficient in YOLOv8, Hugging Face Transformers, TensorFlow, PyTorch, and end-to-end model deployment. Specialize in crafting practical AI solutions such as object segmentation and biomedical natural language processing systems for robotics and healthcare industries.

Technical Skills

Programming Languages: Python, Java, SQL

Machine Learning: Scikit-learn, Random Forest, SVM, Model Training, Feature Engineering

Deep Learning: PyTorch, TensorFlow, YOLOv8, CNNs, Transfer Learning

Computer Vision: OpenCV, Segment Anything Model(SAM), COCO, Roboflow

NLP: BERT, NER, BioClinicalBERT, spaCy, Hugging Face TransformerS

Deployment & tools: Django, Flask, Firebase, Git, Roboflow, Docker, Jupyter

Projects

Object Segmentation for Semi-Humanoid Robots | *Roboflow, SAM, YOLOv8, TensorFlow*

- Engineered an instance segmentation pipeline to enable real-time object detection and robotic grasping.
- Leveraged Meta's Segment Anything Model with AI-assisted annotation tools for precise datasets.
- Optimized YOLOv8 segmentation models to advance autonomous object manipulation in dynamic environments.

Drug Interaction Detector (Healthcare NLP System) | *Python, spaCy, BioClinicalBERT, Hugging Face, Streamlit*

- Constructed an NLP-based risk detection system to flag harmful drug-drug interactions from user input.
- Applied biomedical Named Entity Recognition via BioClinicalBERT for precise drug extraction.
- Merged vector search and knowledge-based queries to supply real-time safety alerts.

PLACIFY: AI-Driven Campus Recruitment System | *Python, HTML/CSS, SQL, SVM*

- Architected a machine learning job matching system powered by Support Vector Machines.
- Attained 89% classification accuracy via targeted feature selection and preprocessing refinement.
- Streamlined student-job matching workflow to elevate placement efficiency.

Experience

AI/ML Intern

i Hub Robotics

October 2025 – January 2026

Ernakulam, Kerala

- Designed object segmentation pipelines using YOLOv8 and SAM for semi-humanoid robots.
- Contributed to healthcare AI systems including OCR-based prescription digitization and biomedical NLP entity extraction.
- Oversaw full ML lifecycle: data annotation, preprocessing, model refinement, testing, and deployment prototypes.

AI Intern

Aican Automate in association with Teachnook

February 2023 – March 2023

Online

- Mastered a solid foundation in Python programming, including core concepts like variables, loops, functions, and file handling.
- Investigated core AI principles and their applications in automation, recommendation systems, and natural language processing.

Education

PG Diploma in AI and ML

I Hub School of Learning

2025 – 2026

Ernakulam

Bachelor of Technology in Computer Science

Thejas Engineering College

2021 – 2025

Thrissur, Kerala

Certifications

Advanced Software Engineering Job Simulation, Walmart, USA

Frontend Software Engineering Job Simulation, Skyscanner