

# VIDHYA E S

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Ernakulam, Kerala, India

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## Professional Summary

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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

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**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

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**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

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**AI/ML Intern**

**October 2025 – January 2026**

*i Hub Robotics*

*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**

**February 2023 – March 2023**

*Aican Automate in association with Teachnook*

*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

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**PG Diploma in AI and ML**

**2025 – 2026**

*I Hub School of Learning*

*Ernakulam*

**Bachelor of Technology in Computer Science**

**2021 – 2025**

*Thejus Engineering College*

*Thrissur, Kerala*

## Certifications

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Advanced Software Engineering Job Simulation, Walmart, USA

Frontend Software Engineering Job Simulation, Skyscanner