

# VAISHAKH.T

ML Engineer | BCA | Yenepoya University

+91 9778534143 | tvaishakh917@gmail.com | Bangalore | linkedin.com/in/vaishakh-t

## WORK EXPERIENCE

---

TCS Intern | 2025 - Online

### Project Focus: Automated Extraction of Handwritten Text from Image

- Spearheaded an automated handwritten text extraction system, cutting manual data entry time for internal documents by 70%.
- Designed and implemented a deep learning solution combining Computer Vision (preprocessing, OCR) and Sequence-to-Sequence NLP models (LSTMs/Transformers).
- Achieved a Character Error Rate (CER) of <5% on digitized forms, showcasing proficiency in model evaluation and fine-tuning.
- Managed the model development lifecycle using Git and maintained high professional software development and documentation standards.

## EDUCATION

---

Yenepoya University | 2023-2026

Batchelor of Computer Application (BCA) With AI,CC and DevOps

## PROJECTS

---

### AI-Driven Disease Diagnostics Project

- Developed a multi-class machine learning model (Random Forest) to predict one of 41 diseases from user-inputted symptoms.
- Achieved 100% accuracy on the test set, demonstrating robust performance over the Naive Bayes baseline.
- Utilized CountVectorizer for NLP feature engineering, transforming symptom text into a model-ready format.
- Deployed a persistent prediction pipeline by serializing the final model and vectorizer with Joblib.
- Key Technologies: Python, Scikit-learn, NLP, Random Forest.

### Personalized Diet Plan Generator (Flask + ML)

- Developed a full-stack web application using Flask and Scikit-learn to generate personalized daily meal plans.
- Engineered an ML model to predict the optimal diet type based on BMI, Goal, and Food Preference.
- Designed the system to query a custom dataset, generating five-meal plans with detailed calorie and nutritional breakdowns.
- Tech Stack: Python, Flask, Scikit-learn, Pandas, HTML/CSS.

## SKILLS

---

- **Programming Languages** : Python, Java, SQL, C, C++, HTML, Css, Javascript
- **ML/DL Framework** : Scikit-learn, TensorFlow, PyTorch
- **Data & Libraries** : Pandas, NumPy, Matplotlib, PySpark
- **MLOps & Deployment** : Flask/FastAPI, Git/GitHub
- **Core Concept** : Feature Engineering, NLP, Model Evaluation/Validation, Neural Networking
- **Soft Skill** : Problem Solving & Critical Thinking, Communication, Collaboration, Continuous Learning

## CERTIFICATIONS

---

- **Cloud Workshop** : Cloud Infrastructure Automation: The Imperative for Cloud success-2025
- **TCS iON Industry Honour Course** - Artificial Intelligence for Real-World Application
- **TCS iON Industry Honour Course** - Cloud Development
- **Coursera Course** : Probability & Statistics for Machine Learning & Data Science
- **Coursera Course** : Microsoft Power BI Data Analyst
- **Coursera projects** : Machine Learning with PySpark: Customer Churn Analysis.
- **Coursera projects** : Fake News Detection with Machine Learning