

Rutu M Belki

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EDUCATION

Visvesvaraya Technological University

B.E in Computer Science Engineering

K.R. Puram, Bengaluru, Karnataka, India

Sep 2021 - Sep 2025

TECHNICAL SKILLS

Programming Languages: Python, R, C, Java, HTML, CSS, JavaScript

Libraries and Tools: Sklearn, Pandas, Numpy, OpenCV, Git, Github, Tensorflow, Tensorflowlite, Drones, Robotics, Overleaf, Figma, Keras, MySQL, tkinter

ML Architectures: CNN, NNs, ResNets, SVMs

COURSES AND CERTIFICATIONS

DATA SCIENCE For Engineers (NPTEL): Python, R, ML, Linear Algebra, Statistics, Optimization, Logistic Regression, Linear regression, KNN, K-means clustering.

Coding and Programming (Samsung Innovation Campus): Python

Azure AI Fundamentals

WORK EXPERIENCE

Research Assistant

Cambridge Institute of Technology, Bengaluru, Karnataka

August 2023 - June 2024

* R&D efforts in UAVs, UAVs, computer vision, and robotics.

* Developed and implemented algorithms and software for drones, robots, and AI systems.

Machine Learning Intern

Infidata, Bengaluru, Karnataka

September 2022 - December 2022

* **Learning the basics:** Built a system on crop recommendation, based on the weather conditions and soil type of the area.

* **Used Algo** Using Random forest Algorithm for crop recommendation system.

* **Data Visualisation:** Matplot for Heat map is Seaborn for interactivity ipywidgets.

PROJECTS

- * **Police Station DataBase Management System:** The project is designed with the aim of maintaining all the records and details related to the police station in order to increase efficiency. .
- * **Financial Data Analysis:** Financial data analysis involves data collection, cleaning, analysis, visualization and by using various python libraries to derive insights for decision-making and reporting.
- * **Digit Recognizer:** Built a Convolutional Neural Network (CNN) using TensorFlow for digit recognition, with a ReLU activation function in the hidden layers and a softmax activation function in the output layer.
- * **Traffic Sign Board Recognition:** Developed a traffic sign recognition system using CNNs with ReLU activation in TensorFlow and Keras, utilizing the German Traffic Sign Recognition Benchmark dataset.
- * **Sign Language Interpretation:** Recorded own dataset and utilized Google's MediaPipe, OpenCV, and Python to create an interpreter that converts sign language gestures into text.

EXTRACURRICULAR ACTIVITIES

- * **Treasurer** of College Robotics Club - Oct 2023 - June 2024
- * **Secretary** of College IEEE Robotics and Automation Society - Mar 2024 - Present
- * **Event Management Member** of TedxCITBengaluru - Nov 2023 - July 2024