

GOUTAM HEGDE

📍 Bengaluru ✉ goutamhegde19@gmail.com ☎ +919481907095 in goutamnhegde 🌐 goutamnhegde

Skills

- **Languages:** Python, Java
- **Web Technologies:** HTML5, CSS, Javascript, Node JS
- **Database:** SQL, MongoDB
- **Data Analysis:** Numpy, Pandas, Matplotlib
- **Data Visualisation:** Power BI

Projects

1. Glaucoma Predictor (*Python, Deep Learning*)

- Created **glaucoma prediction system** by analysing fundus images of the eye
- Prediction is based on **cup-to-disc ratio** of eye
- Utilised **OpenCV** for image processing tasks like applying **CLAHE** and TensorFlow for GPU support and faster processing
- **U-Net** architecture is used for the segmentation of optic cup and optic disc
- Achieved **92%** accuracy against test dataset

2. Smart Access System (*MicroPython, IOT*)

- Developed the core functionality of an access control system using **Raspberry Pi Pico** Microcontroller and **Micropython**
- Engineered **SQLite database** integration allowing dynamic user creation, password verification and access logging
- Integrated buzzer, 4x4 keypad, servo motor to achieve real time functionality
- The outcome is a responsive system capable of handling multiple user credentials with a response time of **under 3 seconds**

Education

RV College of Engineering

Secured 8.00 CGPA in MCA

Feb 2023 – October 2024

Bengaluru, Karnataka

Poorna Prajna College

Secured 8.90 CGPA in BSc (PSM)

June 2019 – November 2022

Udupi, Karnataka

MES PU College

Secured 91 percent in 12th board exams

June 2017 – May 2019

Sirsi, Karnataka

Govt Highschool Banadala

Secured 97 percent in 10th board exams

June 2014 – May 2017

Sirsi, Karnataka

Certifications

- Enhancing Soft Skills and Personality (*NPTEL*)
- Microsoft Power BI (*Infosys Springboard*)

Achievements and Extracurriculars

- Secured 19th rank in PGCET Examination 2022-23 among 20,000+ candidates
- Volunteering with eVidyaloka Trust, creating educational content to improve digital learning resources and enhance access to quality education for students in rural areas.