

# NAMAN AGNIHOTRI

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## EDUCATION

**Marathwada Mitra Mandal's College of Engineering, Pune**  
Bachelor of Engineering Information Technology *GPA: 8.65*

Pune  
Dec 2021 - Jun 2025

## WORK EXPERIENCE

**Rinex**  
*AI/ML Intern*

Pune Maharastra  
Nov 2022 - Dec 2022

- Learned and Developed skills and knowledge base in Deep learning using TensorFlow and Keras.
- Developed few Deep Learning models for classification and regression task using open source datasets from Kaggle.

## SKILLS

Programming Languages:	C, C++, Python, Java
Machine Learning:	TensorFlow, Pytorch, Scikit-learn, LangChain, LLMs( GPT, BERT, LLaMA, Gemini)
Web Development:	HTML, CSS, JavaScript, ReactJS, Flask, Django, NodeJS, ExpressJS, FAST API
Database:	MySQL, sqlite, MS SQL, MongoDB
Cloud Services:	AWS, Heroku, Azure
Tools:	VS code, Docker, Jupyter Notebook, Git
Additional Libraries:	Pickle, Joblib, Numpy, OpenCV2, Jinja Templating

## PROJECTS

**QR based Attendance System** *HTML, CSS, JS, Flask, sqlite, AWS, Gemini* <https://itats.online>  
Secure, easy and robust way to mark attendance for college students. Prevents students from marking fake attendance and provides entire digital dashboard for faculty to monitor various aspects of attendance and data.

**Career Guidance chatbot GuidoAI** *HTML, CSS, JS, Tailwind, Flask, Gemini, MongoDB*  
A career counseling chatbot that guides students to decide which career they should pursue based on series of questions and answers. Also provide Skill Gap Analysis based on student's resume.

**Video Calling WebApp** *MERN stack, WebRTC, socket.io*  
A small light weight peer to peer video calling web app that allows two users to connect with each other. Also enables user's share their screen and interact with each other with Real time chat.

**Emotion Detection using Neural Networks** *Python, TensorFlow, OpenCV2, PIL, Jupyter Notebook*  
A simple Emotion Detection model developed for college event to take virtual feedback of participants and organizers just by looking at their face using OpenCV and Tensorflow. Also a collage of this feedback images were dynamically produced using PIL.

**Image Resolution Enhancer using ESRGAN** *Python, PyTorch, RRDB\_NET*  
A image resolution enhancer using Generative Adversarial Network that enhances resolution of any image by 4x Times. Build onto an existing open source project and model.

**Diabetes detection using Machine Learning** *Scikit-learn, Python, Jupyter Notebook*  
A simple diabetes detection model deployed onto website which takes series of questions and based on that provides the probability of user having Diabetes with good accuracy of 85%..

**Custom Model for Accident Detection.** *Scikit-Learn, Python, Jupyter Notebook*  
A classical machine learning model which when provided with desired inputs provides the number fatalities possible for given scenario and also whether the accident will take place or not with strong accuracy of 97%.

**Proctoring system using Face Detection and Verification alongside Behavior modeling.** *Python, OpenCV, Hara Cascade, FAST API, Javascript, TensorFlow*  
Proctoring tool that can be integrated with any given website just by using our API. Features like Face Detection, Face verification, Iris Tracking and Mobile Detections were used to Monitor the candidate. Additional features such as Copy-Paste Disabler and Full Screen Mode were applied to increase robustness of the system.

**Alzheimer Detection Using Brain Scans** *TensorFlow, Python*  
Model based on artificial neural network was trained to classify the provided brain scan as Mild Demented, Moderate Demented, Non Demented or Very Mild Demented. Model uses VGG16 architecture and CNN layers to perform this classification with accuracy of 82%.

**Object Detection using efficientDET Model.** *Python, OpenCV2, TensorFlow*

An Live Object detector based on Google's EfficientDET 2 model that can detect upto 91 objects in real time.

**Railway Ticket Booking Website** *HTML, CSS, Javascript, PHP, MySQL, Apache*

A small mini project done as a beginner which replicated railway ticket booking with entire search menu, session management and other user oriented features.

ACHIEVEMENTS

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**ITSA President**

Recognized as President for Departmental Club ITSA

**ACM SC Vice-Chairperson**

Recognized as Vice-Chairperson in ACM SC for MMCOE.

**MicDrop Vice-Chairperson**

A podcast club exclusive for MMCOE.