



## BRIEF SUMMARY

Motivated and detail-oriented engineering student with a strong foundation in technical and analytical skills. Passionate about learning emerging technologies, developing innovative solutions, and contributing effectively to team projects. Seeking opportunities to apply my knowledge, enhance my practical experience, and grow both personally and professionally in a dynamic environment.

## KEY EXPERTISE

Machine Learning Artificial Intelligence Data Analysis Problem Solving Python

## EDUCATION

<b>MIT Academy of Engineering, Pune</b> B.Tech. - Electronics and Telecommunication Engineering	2023 - 2027
<b>Kamal Nayan bajaj high school</b> 12 <sup>th</sup>   MSBSHSE   Percentage: 80.20 / 100	2023
<b>Kamal Nayan bajaj</b> 10 <sup>th</sup>   MSBSHSE   Percentage: 80.17 / 100	2020

## AWARDS AND SCHOLARSHIPS

- Received internship certification from Eisystems Technologies and Robokwik for outstanding completion of AI internship project.

## INTERNSHIPS

<b>Edunet Foundation</b> AI & Cloud Technologies	15 Jul, 2025 - 07 Aug, 2025
<b>Key Skills:</b> IBM Cloud   Artificial Intelligence   Cloud Computing	
Completed a 4-week online internship focused on Artificial Intelligence and Cloud Computing using IBM SkillsBuild and IBM Cloud platforms. Gained hands-on experience in emerging technologies through guided modules and virtual projects	
<b>SmartBridge</b> AI & MI	16 Jun, 2025 - 05 Aug, 2025
<b>Key Skills:</b> Python   Data Preprocessing   Machine Learning   Model Evaluation	
Completed an online experiential learning internship on Artificial Intelligence and Machine Learning. Worked on academic and project-based tasks involving data preprocessing, model building, and evaluation using Python and ML libraries.	
<b>Eisystems</b> Artificial Intelligence	25 Jun, 2024 - 24 Jul, 2024
<b>Key Skills:</b>	
Artificial Intelligence Machine Learning Data Analysis Python Data Preprocessing Model Training & Evaluation	
Completed a 4-week internship focused on Artificial Intelligence and machine learning applications. Developed a predictive model for "Survival Analysis of Passengers on the Titanic" using data preprocessing and algorithm training techniques. Gained practical skills in data analysis, model evaluation.	

## PROJECTS

### Hearing Impairment Assistant – Speech to Sign Language Translator

**Key Skills:** Python, SpeechRecognition, Tkinter, PIL, NumPy, Matplotlib, EasyGUI, OpenCV

Built a real-time Python application that converts spoken English to Indian Sign Language (ISL) using SpeechRecognition, Tkinter, and PIL. Integrated GIF animation mapping, offline speech handling, and image-based sign display to enhance accessibility for hearing-impaired users.

# Blood Pressure Stage Prediction using Machine Learning

**Key Skills:** Python Machine Learning Data Preprocessing Model Evaluation

Developed a machine learning model to predict a patient's blood pressure stage based on medical parameters such as age, gender, systolic and diastolic readings, and medication status.

Performed extensive data cleaning, encoding, and visualization to understand key health trends.

Implemented multiple ML algorithms — Logistic Regression, Decision Tree, Random Forest, SVM, and Naive Bayes — to compare performance.

Achieved highest accuracy using Random Forest after hyperparameter tuning with RandomizedSearchCV.

Balanced the dataset using SMOTE and saved the final model using Pickle for future deployment.

## ACHIEVEMENTS

- Successfully completed a 4-week internship in Artificial Intelligence, applying machine learning algorithms for predictive analysis.

## CO-CURRICULAR ACTIVITIES

- Participated in AI and Data Science workshops to enhance technical and analytical skills. Worked on projects related to data preprocessing, visualization, and model building.

## PERSONAL DETAILS

**Gender:** Male

**Marital Status:** Single

**Current Address:** Shree complex,Sambhajinagar,Chichwad,  
Pune, Maharashtra, India - 411019

**Emails:** adityasonakanalli@gmail.com , 202301070175@mitaoe.ac.in

**Date of Birth:** 22 Sep, 2005

**Known Languages:** English,Hindi,Marathi

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