

Vedant Padole  
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## Professional Summary

I am a dedicated and motivated professional with a passion for Artificial Intelligence and Machine Learning. I have developed a strong foundation in Artificial intelligence and web development. I thrive in dynamic and collaborative environments, bringing a proactive and innovative approach to problem-solving. Communication is one of my core strengths, allowing me to effectively collaborate with cross-functional teams, stakeholders, and clients.

## Education

- Computer Science and Engineering (AIML) | Shri Ramdeobaba College of Engineering and Management, Nagpur CGPA – 9.41 (2020-present)
- XII (State Board) | Tarkunde Dharampeth Science College, Nagpur 80.77% | (2018)
- X (State Board) | Somalwar High School Nikalas Branch, Nagpur 96.4% | (2020)

## Work Experience

- **Machine Learning Intern**  
Worked with AcmeGrade on Movie recommendation system (personal project) and Stock market price estimation (group project). Compared the accuracy and efficiency of various machine-learning and deep-learning based algorithms like SVM's, LSTM's.
- **Machine Learning intern and Market segment analyzer**  
Worked with Feynn Labs as a machine learning intern and market analyzer on real world projects and analyzed the tea-based market analysis in India. Got acquainted with R, python and various machine learning and deep learning based algorithms.  
**Letter of recommendation available on demand.**
- **Martian Program for Infosys**  
Currently learning and working with Infosys for Martian program under which we will taught about Basics of Linux, RDBMS, Data Structures and many more.

## Skills

- Strong knowledge of machine learning algorithms and techniques, including supervised and unsupervised learning, deep learning, and reinforcement learning.
- Proficient in programming languages such as Python and R, with experience in data manipulation, statistical analysis, and model development.
- Expertise in using popular machine learning frameworks and libraries, including TensorFlow, Keras, PyTorch, scikit-learn, OpenCv, YOLO.
- Experience in natural language processing (NLP) techniques, including text classification, sentiment analysis, named entity recognition, and language generation.

- Familiarity with cloud platforms such as AWS, Google Cloud for deploying and scaling machine learning models.
- Proficient in front-end web development using HTML5, CSS3, JavaScript and JQuery.
- Strong experience in developing web applications using the MERN (MongoDB, Express.js, React.js, Node.js stack and RESTful API.
- Have a good hold on content writing and blogging.

### Academic Projects

- **Natural Language Processing for American Sign Language**  
Built the model which can detect the sign language using various tools and built a natural language processing pipeline to convert those labels into text. Got acquainted with models like LRCN, LSTM, YOLO(v5) and YOLO(v8).
- **Stock market price estimation**  
Built the model using deep learning frameworks which can estimate stock prices based on past 100 days data. Used LSTM to achieve the objectives and compared the results with other algorithms like GRU's
- **Movie Recommendation Systems**  
Built a responsive movie recommendation system using machine learning and deep learning frameworks and learned algorithms like decision tree, RBF and SVM.
- **Steganography**  
Worked on backend development to hide the data in LSB plane of an image or a video, the data can be in the form of text and sound. Got acquainted with Pillow, Computer Vision for image processing.
- **Kisan-Web**  
Worked on backend for model building and database management for the website. Used deep learning models like CNN for image classification and deployed the website using amazon web services. And further deployed that model.

### Achievements

- Got felicitated by RCOEM Technology Business Incubators Foundation (TBI) for best innovation in Information Technologies for American Sign Language.
- Qualified **GATE** examination in year 2023 with an AIR 2076.
- Got a rank 88 in scholarship examination for eighth grade students, and rank of 113 for fourth grade student.
- Qualified Pravinya and was selected for Pradnya examination and eventually qualified pradnya examination .
- Qualified Maharashtra Talent Search Examination twice got 137 and 109 ranks respectively.