Prathamesh Khade

✉ prathamesh.khade20@pccoepune.org in LinkedIn 🐙 GitHub 📞 +91 8483917297 🏠 Pune, Maharashtra

	Pune, Maharashtra
Pimpri Chinchwad College of Engineering	*2020 - 2024*
Bachelor of Technology, Mechanical Engineering with Dual degree in Data science	

Technical Skills

Languages and Tools	: Python, HTML, CSS, JS, SQL(MySQL), Tableau, Excel, Git, GitHub
Libraries & Frameworks	: Numpy, Pandas, Matplotlib, Seaborn, PySpark, Sk-Learn, Beautiful Soup, Tensorflow
Data Science & Machine Learning	: Data Collection, Data Preprocessing, Data Visualization, Data Warehousing, Linear and Logistic regression, KNN, Decision Tree, Random forest, SVM and K Means
Mathmatics for ML & DL	: Statistics, Probability, Matrices

Experience

Research Intern | Tata Motors - (Jun 2023 - Sep 2023**)** ▶

- **Automated Guided Vehicle**: Designed and implemented an Automated Guided Vehicle (AGV), from conceptualization to implementation ,reducing human efforts by 20 % .
- **Web app Development**: Created a user-friendly **Python** application for the AGV's interface, allowing seamless control and monitoring of the vehicle's functions.

Machine Learning intern | TE Connectivity - (Nov 2022 - Apr 2023**)** 🎤

- Both projects encompassed data collection, preprocessing, model training, and evaluation, enhancing accuracy and security in diverse applications.
- Utilized the **Dart** library and **Deep Learning** techniques to achieve an **R2 score** of 0.85, resulting in a 5% increase in accuracy.

Projects

AI based Fashion product Recommender System 🐙 ▶

- Developed a Generative AI-based Fashion Recommender System using a Kaggle dataset of 45,000 images.
- Conducted extensive data preprocessing and feature engineering, creating templates for each image and transforming them into vectors using the techniques such as **CNN** and **autoencoders**.
- Leveraged **cosine similarity , KNN** to measure the likeness between Images and recommend the top 5 products.
- Used libraries such as NumPy, Torch, Scikit-Learn and **Hugging Face** to develop a Chabot to streamline the recommender system's functionality and user interface, result in a 25% reduction in searching time.

Bank Loan Analysis 🎤

- Created a bank loan analysis dashboard using Power BI, providing stakeholders with interactive visualizations and key performance indicators for loan portfolios.

Achievements

- Gate score (Data Science and AI) : 32.67
- TE connectivity AI cup global rank 8

Publication:

Speed and direction control of dc motor using Arduino.

Certifications

- Stanford University & DeepLearning.Ai Machine Learning Specialization.- Machine Learning
- Introduction to computer vision and image processing (IBM)- Computer vision
- DeepLearning.AI Generative Adversarial Networks(GANS)Specialization - Generative AI
- DeepLearning.AI Deep Learning Specialization - Deep learning
- IBM AI Engineering Specialization - IBM AI Engineering