

# ARYA DESHMUKH

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## EDUCATION

**MKSSS's CUMMINS COLLEGE OF ENGINEERING FOR WOMEN, PUNE**  
*Bachelor's in Technology in Computer Engineering*  
GPA - 9.1/10

*Pune, India*  
*Jun 2021 - Jun 2025*

**PARADISE JUNIOR COLLEGE**  
*Higher Secondary Certificate*  
Percentage – 91%

*Pune, India*  
*Jun 2019 – Jun 2021*

## TECHNICAL SKILLS

- Language & Databases:** Python, Java, HTML, CSS, JavaScript, SQL, MongoDB, MySQL
- Application Development Tools:** ReactJS, REST API, Spring Framework, Django, NodeJS
- ML Frameworks:** Seaborn, Sklearn, Numpy, Pandas, Keras, Tensorflow, NLTK, Plotly
- Data Analysis Tools:** Python, SQL, Power BI, MS Excel

## WORK EXPERIENCE

### IBM SPONSORED PROJECT

*Discovery and Classification of Images and Video content*

*Pune, India*  
*Aug 2024 – Dec 2024*

- Utilizing Optical Character Recognition (OCR) tools like Tesseract and OpenCV to extract text from images for accurate classification of data into categories such as Personally Identifiable Information (PII), Sensitive, and Confidential.
- Integrating PII detection using tools like Presidio for text analysis, and employing custom image classification models for content identification.

### MASTERCARD

*Business Operation Intern*

*Pune, India*  
*May 2024 – Jul 2024*

- Collaborated with the BizOps team to streamline incident resolution by developing a comprehensive workflow and guideline sheet.
- Utilized SQL knowledge to extract incident data and create insightful visualizations for informed decision – making.
- Applied data analysis techniques to increase the efficiency and accuracy of work orders.

## PROJECTS

### Organ Donation Management System using MySQL, Python and Streamlit

- Developed an efficient organ donation system for seamless donor-recipient matching across pancreas, cornea, liver, and kidney donations.
- Built a streamlined Python GUI using the Streamlit framework, optimizing donation management and coordination.

### Stock Market Price Prediction using Machine Learning

- Designed Stock Market Price Prediction using ML techniques, comparing Linear Regression and Random Forest models.
- Utilized 10-day exponential moving average as a predictor for closing prices. Achieved an accuracy of 94%

### Realtime Chat Application using ReactJS and NodeJS

- Developed using ReactJS, REST and NodeJS, this application includes user authentication, socket connection, real time messaging, image and file attachments, group chats and direct messaging.

### College Allocation System using Data Structures and Algorithms

- Developed Java-based automated college allocation system, utilizing student preferences, percentiles, and available seats.
- Utilized Hash Maps, Array Lists and Tree Maps to store data and apply searching algorithms.

## LEADERSHIP & EXTRACURRICULARS

- Winner of the Mastercard Global Intern Innovation Challenge, 2024 for innovative solutions on GenZ and GenAI.
- Member of the winning team in the Mastercard BizOps Patent Challenge, 2024, recognized for submitting an IDF.
- Selected as one of 40 students nationwide for the 2022 ACM Winter School at IIT Bombay, focusing on Digital Trust.
- Runner up of the IEEE's Ideathon – Avinya, 2023.
- Lead the team and secured 3rd position in CCOEW Loop's Buffer Hackathon 2023 in digital society domain.
- Led the team and secured 2nd position in ECell Yukta's - Business Hackathon, 2023.
- 2nd Runner up of the Conferderation of Indian Industry - Cummins Ideathon 2023 for addressing industrial air pollution.
- Selected for the general scholarship of Harvard WECODE Conference 2023, USA.
- Founder member of organic farming club 'Parasbaug' focused on growing organic produce and inculcating the habit of gardening among young kids.

## LANGUAGES

- English
- French
- Hindi
- Marathi