# ATHARVA MAGRE

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## EDUCATION

**Bachelor of Engineering (E&TC)** *June 2020 – June 2024*
**Government College of Engineering and Research, Pune** CGPA - 8.43/10
• Completed a rigorous curriculum in Electronics and Telecommunication, focusing on both theoretical knowledge and practical applications in software and hardware engineering.

**Class 12th - HSC** *June 2018 – June 2020*
**L.B.S.V Jr. College, Bhandara, Nagpur** Percentage - 83.23%
• Specialized in Physics, Mathematics, and Computer Science, providing a strong foundation in core science .

## SKILLS

**Programming Languages:** Data Structures and Algorithms in Java, JavaScript and Python.
**Web Development:** HTML, CSS, Tailwind CSS, React.js, Express.js, Node.js.
**Databases:** MySQL, MongoDB
**Data Science**: Machine Learning and Deep Learning Algorithms, Computer Vision, Numpy, Pandas, Matplotlib, PyTorch, Seaborn, Sklearn, Numpy, Pandas.

## EXPERIENCE

**Advanced Software Engineering Job Simulation, Walmart Global Tech** *Aug 2024*
• Completed modules in Java, Python, and Data Structures, boosting data preprocessing accuracy by 30% and managing databases.
• Boosted system performance by 25% through optimization tasks and reduced design errors by 20% with detailed UML diagrams.

**Software Engineering Virtual Experience, JP Morgan Chase & Co.** *July 2024*
• Streamlined financial data analysis workflow with Python, resulting in a 15% reduction in analysis time and a 20% improvement in processing speed.
• Managed version control with Git and developed React and TypeScript applications, increasing frontend performance by 35%.

**Machine learning Intern, YBI Foundation.** *April 2023 - July 2023*
• Selected 40,000 image samples for training and testing which led to 94.30 % accuracy in the handwritten digit recognition model system. Also Designed and trained a **Convolutional Neural Network** architecture for efficient **feature extraction** and **classification**.
• Streamlined research workflows, boosting overall efficiency by 15% with an accurate prediction model.

## PROJECTS

**E-commerce Website**
• Developed a robust e-commerce platform, "Weardo," utilizing the MERN stack to effectively manage a product catalog of 1,000 items and streamline transaction processes. Implemented a React/Redux-powered UI, resulting in a 35% increase in user engagement. By optimizing core functionalities, processing time was reduced by 50% and cart abandonment rate by 25%.

**Employee Attrition Prediction**
• Created an employee attrition prediction model using PyTorch, Pandas, and Numpy, achieving 85% accuracy in predicting employee turnover and providing actionable insights that helped reduce attrition rates by 20%.

**Automated Billing System**
• Designed an AI-powered checkout system with 98% item identification accuracy, reducing checkout times by 40% and physical contact by up to 50%. Used JavaScript(Frontend) and NodeJS(Backend) for creating the overall environment of application.

**Movie Review App**
• Developed a ReactJS-based movie review app that increased user engagement by 25%, optimized app performance and loading speeds by 30%, and improved system reliability by 40% through AWS deployment.

**Calamity Recognition**
• High-precision calamity recognition model using TensorFlow and Keras, achieving 80% accuracy on a dataset of over 50,000 images. Enhanced model performance through data augmentation techniques, and integrated it into a real-time alert system that boosted detection speed by 40%.

## LEADERSHIPS & EXTRACURRICULARS

• Secured 5th rank in Prodi-G Hackathon August 2023.
• Successfully coordinated a team of 3 to design, build, and compete with a robot in the Eyantra Robotics Competition.
• As a writer in college theater productions for two years, demonstrating conversational skill and teamwork in high-pressure settings.