

PROFESSIONAL SUMMARY

Computer Science undergraduate with a stellar academic record (10/10 GPA) and experience in software development, cloud computing, and machine learning. Proficient in Python, Java, and SQL, with certifications in Azure Fundamentals (AZ-900). Delivered impactful projects at Infocepts and hackathons. Contributed to research and innovation through AI-driven patents and publications. Adept at creating scalable, data-driven solutions and passionate about leveraging technology for impactful outcomes.

EDUCATION

Shri Ramdeobaba College of Engineering and Management

Bachelor of Technology (B.Tech.) in Computer Science Engineering

Cumulative GPA: 10/10

Merit Scholarship: 2022-23 & 2023-24

Nagpur, MH
Aug. 2022 – Jun. 2026

EXPERIENCE

Software Intern

Infocepts Data & AI

Jul. 2024 – Dec. 2024
Remote

- Developed interactive Power BI dashboards measured by improved decision-making accuracy by leveraging Excel datasets for data visualization.
- Automated data import processes, reducing manual effort by 80% by integrating JSON/CSV files into a SQL database using SSMS and Python (pyodbc library).
- Designed a notification system to alert the DBA of database changes, providing detailed email reports and cutting response time by half.

Software Development Intern

JP Morgan Chase & Co.

Upcoming – Summer 2025
Mumbai, MH

- Selected for a highly competitive role, emphasizing skills in software development and problem-solving.
- Will contribute to impactful projects involving scalable software solutions and innovation.

RESEARCH PROJECTS

Insight Invest: Sentiment-Aware Stock Prediction Using LSTM and Conversational Interfaces

Pande A., Jeyush A., Lakhote, A.K., Rath, S.A., Chandak, M.B.

2024
Submitted

- Developed a novel Emotional Quotient (EQ) metric for sentiment analysis in stock market predictions.
- Achieved 89% accuracy in stock price trend forecasting using LSTM models and sentiment integration.
- Submitted to the International Journal of Informatics and Communication Technology (IJ-ICT), under review.

Edge Detection Model: Deep Learning Approach for Efficient Edge Detection in Images

Pande, A., Bhurchandi, K.M.

2025
Under Development

- Developed a Deep Learning model capable of detecting 16 distinct edge types across 3x3, 5x5, and 7x7 matrices.
- Achieved faster edge detection compared to traditional mathematical models, improving computational efficiency.
- Currently under development in collaboration with Dr. K.M. Bhurchandi, VNIT.

PATENTS

An automated system for the evaluation of the textual and diagrammatic answers

Patent Status: Published

Nov. 2024
[Application No. 202421087294](#)

- Engineered an AI-based grading system using OCR, handwriting recognition, and NLP for text and diagrams.
- Implemented text-diagram coherence verification and neural network classifiers for accurate labeling and grading.
- Automated feedback generation with performance metrics, ensuring transparency and scalability for educational institutions.

A System and a Method for Smart Shopping

Patent Status: Published

Aug. 2024
[Application No. 202421061141](#)

- Developed an advanced retail automation system integrating RFID/NFC bands, smart shelves, and weight sensors.
- Engineered theft prevention mechanisms, including cart weight verification and RFID-based tracking.
- Integrated IoT-enabled smart shelves and carts for precision, scalability, and operational efficiency.

PROJECTS

Rooftop Segmentation and Solar Panel Optimization | *Python, YOLO, SAM*

Sept. 2024 – Mar. 2025

- Contributed to optimizing solar panel installations for **IIT Bombay's** Maharashtra Drone Mission.
- Developed a multi-class segmentation system for roof attribute detection and obstacle exclusion.
- Trained models on 4,000+ satellite images to evaluate roof area and suitability for solar panels.
- Collaborated with 4 students and faculty from IIT Bombay and RCOEM.
- Addressed challenges with dynamic demands and dataset variations using advanced ML techniques.

NGO Management System | *ReactJS, React Native, Firebase, Google Maps API, Python*

Jun. 2024

- Developed and deployed a web and mobile application for Eagl Foundation to streamline management.
- Built an admin dashboard to manage volunteers, track activities, and view key statistics.
- Created a volunteer portal for tracking beneficiary details and progress updates, and a vendor portal for item listing with admin approvals.
- Enabled seamless proof of work with photo uploads and automated location tracking.
- Generated critical operational insights using Python-based data visualizations.
- Collaborated with a team of seven to design and implement the solution.
- Secured *1st Runner-Up* in [JPMorgan Chase's Code for Good 2024](#), selected from over 2,000 applicants and competing against 6+ finalist teams.

TECHNICAL SKILLS

Languages: C/C++, Java, Python, JavaScript, SQL

Developer Tools: Git, GCP, AWS, Azure

Libraries: NumPy, Pandas, Matplotlib, Seaborn, Scikit-learn, TensorFlow, Keras, PyTorch

GLOBAL CERTIFICATIONS

- Microsoft Certified: Azure Fundamentals (AZ-900)** – Certification No: [8AA498-44BB15](#)
- Fundamentals of Deep Learning** – Certification No: [dxlRbvoCRei7xEFUR6EV-Q](#)

EXTRA CURRICULAR

Academic Support Volunteer

Make A Difference

Jul. 2024 – Present
Nagpur

- Provide personalized math tutoring to 5th standard students, focusing on underprivileged children.
- Create a safe and inclusive classroom environment that encouraged active participation and student ownership of learning.
- Promote leadership through ownership by encouraging youth to mark their attendance and take responsibility for their actions.