ANKIT PANDE ↗

+91-9309136743 | pandeankitr@gmail.com | https://www.linkedin.com/in/ankit-pande-31ap04 | https://github.com/Ankit0431

PROFESSIONAL SUMMARY

Results-driven Software Engineer with expertise in scalable distributed systems, cloud computing, and full-stack development. Proficient in Python, Java, and C++, with hands-on experience in AWS, Azure, and AI/ML technologies. Passionate about designing and optimizing large-scale applications, solving ambiguous problems, and delivering high-impact, customer-centric solutions.

EDUCATION

Shri Ramdeobaba College of Engineering and Management   Nagpur, MH
Bachelor of Technology (B.Tech.) in Computer Science Engineering   *Aug. 2022 – Jun. 2026*

Cumulative GPA: 10/10

Merit Scholarship: 2022-23 & 2023-24

EXPERIENCE

Software Development Intern   Mar. 2025 - Present
GlobalLogic   *Nagpur, MH*

- Developing scalable automation solutions for seamless data migration across distributed databases.
- Implementing fault-tolerant mechanisms to ensure data integrity during large-scale migrations.
- Optimizing migration processes to enhance efficiency and minimize downtime.

Student Intern   Jul. 2024 – Dec. 2024
Infocepts Data & AI   *Remote*

- Engineered large-scale data pipelines, improving processing efficiency by **60%**.
- Built interactive Power BI dashboards using SQL and Python, enabling data-driven decision-making.
- Automated ETL workflows, reducing manual effort by **80%**.
- Implemented real-time monitoring and alert systems, enhancing operational efficiency.

RESEARCH AND PUBLICATIONS

Insight Invest: Sentiment-Aware Stock Prediction Using LSTM and Conversational Interfaces   2024
International Journal of Informatics and Communication Technology (IJ-ICT)   *Under Review*

- Developed a novel Emotional Quotient (EQ) metric for sentiment-based stock trend forecasting.
- Achieved **89% accuracy** in predicting price movements using LSTM-based deep learning models.

Edge Detection Model: Deep Learning Approach for Efficient Edge Detection in Images   2025
                                                                                       Under Development

- Developed an DL-based edge detection model capable of identifying 16 unique edge types.
- Optimized for real-time image processing, improving computational efficiency.

PROJECTS

Reinforcement Learning-Driven Personalized Recommendation System | *Python, Pytorch, OpenAI gym*   Mar. 2025

- Built a scalable RL-based recommendation system trained on **Amazon Reviews** dataset.
- Implemented Deep Q-Learning (DQN) to optimize user-specific recommendations.
- Achieved Precision@K of **75%** and Recall of **99.6%,** significantly improving recommendation accuracy.

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.

NGO Management System | *ReactJS, React Native, Firebase, Google Maps API, Python*   Jun. 2024

- Engineered a web and mobile application for Eagl Foundation, enhancing operational efficiency by **40%**.
- Developed an intuitive volunteer portal for monitoring **1,000+** beneficiary records and tracking progress updates.
- **Doubled** volunteer participation by integrating automated proof-of-work tracking, enabling seamless photo uploads and real-time location verification
- Won *1st Runner-Up* in JPMorgan Chase's Code for Good 2024, selected from over 2,000 applicants and competing against 6+ finalist teams.

PATENTS

Automated Evaluation of Textual & Diagrammatic Answers   Nov. 2024
Patent Status: Published   *Application No. 202421087294*

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

Smart Shopping System Using RFID/NFC & IoT   Aug. 2024
Patent Status: Published   *Application No. 202421061141*

- Developed an intelligent retail system integrating RFID-based checkout, theft prevention, and smart shelves.
- Designed and implemented IoT-enabled weight sensors for accurate tracking and fraud detection.

TECHNICAL SKILLS

Programming: C++, Java, Python, SQL, JavaScript
Cloud & DevOps: Azure, AWS (EC2, S3, Lambda)
Databases: PostgreSQL, MySQL, MongoDB
Machine Learning:TensorFlow, PyTorch, Scikit-learn
Tools & Frameworks: Git, Power BI, ReactJS, Node.js, Flask

GLOBAL CERTIFICATIONS

- **Microsoft Certified: Azure Fundamentals (AZ-900)** — Certification No: 8AA498-44BB15

- **Fundamentals of Deep Learning** — Certification No: dxIRbvoCRei7xEFUR6EV-Q

EXTRA CURRICULAR

Academic Support Volunteer   Jul. 2024 – Present
Make A Difference   *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.