

PRATHAMESH KATE

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PROFESSIONAL SUMMARY

Versatile and detail-oriented Engineering undergraduate with a comprehensive foundation in Artificial Intelligence, Data Science, and Software Engineering. Highly proficient in Python and SQL, with hands-on experience spanning across machine learning, natural language processing, full-stack application development, and data analytics. Adaptable problem-solver and published researcher, equipped with strong communication skills and a proven ability to architect scalable databases, deploy AI models, and deliver actionable technical insights.

TECHNICAL SKILLS

Programming Languages: Python (Advanced), SQL, C++, Java (Basic), HTML/CSS/JS

AI, ML & Analytics: Machine Learning, Natural Language Processing (NLP), Deep Learning, Computer Vision, Generative AI, Choice-Based Conjoint Analysis, Statistical Modeling

Frameworks & Libraries: Hugging Face Transformers, OpenCV, Streamlit, Pandas, NumPy, Power BI

Databases & Cloud: PostgreSQL, MySQL, Oracle Cloud Infrastructure, Database Architecture

Tools & Practices: Git, GitHub, VS Code, Linux/Windows Environments, Object-Oriented Programming (OOP)

EDUCATION

Bachelor of Engineering – Artificial Intelligence & Data Science

Aug 2023 – May 2027

Dr. D. Y. Patil College of Engineering and Innovation, Pune

- **Relevant Coursework:** Data Structures & Algorithms, Machine Learning Fundamentals, System Analysis, Object-Oriented Programming, Database Management.

PROFESSIONAL EXPERIENCE

Data Science & Technical Intern

Jan 2025 – Feb 2025

Oasis Infobyte

- Developed and deployed robust machine learning models and data processing scripts entirely in Python, optimizing algorithms for complex data extraction and analysis.
- Engineered automated data logging workflows using Python and SQL, minimizing manual intervention and accelerating incident resolution and transformation times.
- Documented technical architectures, analytical pipelines, and software best practices via GitHub to enhance team knowledge and ensure reproducible development.

RELEVANT PROJECTS

Advanced AI & NLP Pipeline (Hugging Face Transformers)

- Engineered a sophisticated Natural Language Processing (NLP) pipeline utilizing pre-trained Hugging Face transformer models for automated, high-accuracy text classification.
- Optimized model architecture and inference speeds using Python to systematically categorize large datasets of unstructured text for scalable analysis.

AI-Based Smart Attendance System (Computer Vision & Deep Learning)

- Designed an intelligent, contactless tracking application utilizing real-time image processing, OpenCV, and deep neural network architectures.
- Implemented deep learning frameworks to extract 128-dimensional biometric vectors and engineered an automated SQL database backend to eliminate manual entry bottlenecks.

Full-Stack Analytics & Database Reporting Dashboard

- Architected relational database schemas in PostgreSQL to systematically manage, store, and query over 179,000 discrete records securely and with minimal latency.
- Built and deployed an interactive, cloud-ready web application using Streamlit, demonstrating strong full-stack awareness and the ability to visualize complex statistical data.

CERTIFICATIONS & ACHIEVEMENTS

- **Oracle Cloud:** Infrastructure 2025 Certified AI Foundations Associate
- **Conference Presenter & Researcher:** Lead Author and Presenter of technical AI research papers at International Conferences, demonstrating strong public speaking and technical communication skills.
- **IBM Data Science Professional:** Certified in Data Science Methodology and Python Tools for Data Science.