PANDURANGAREDDY KOTTE

Aspiring Data Scientist | Machine Learning Intern
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LinkedIn| GitHub | LeetCode

PROFESSIONAL SUMMARY

Analytical and results-driven **Data Science** student with technical proficiency in **Machine Learning (ML)**, **Python**, and **SQL**. Proven track record of developing predictive models, including a **CatBoost** classification project, and architecting full-stack applications using **Flask**. Demonstrated leadership through managing large-scale college events, showcasing strong project management and cross-functional team coordination skills.

EDUCATION

- **Bachelor of Technology in Computer Science and Engineering** | RGM College of Engineering and Technology | Expected July 2027
- **Pre-University Course** | IIIT Srikakulam | Graduated 2023

TECHNICAL SKILLS

- **Programming Languages:** Python (Advanced), Java, SQL (PostgreSQL, SQLite), JavaScript
- **Data Science & Analysis:** Exploratory Data Analysis (EDA), Pandas, NumPy, Scikit-learn
- **Machine Learning:** Supervised Learning (Classification & Regression), CatBoost, Hyperparameter Tuning, Model Evaluation
- **Data Visualization:** Matplotlib, Seaborn
- **Web Development:** Flask Framework, HTML5, CSS3
- **Tools & Version Control:** Git, GitHub, Jupyter Notebook, VS Code

CERTIFICATIONS

- DATA ANALYST ASSOCIATE CERTIFICATION **– [DATACAMP]**
- PYTHON FOR DATA SCIENCE **– [IBM]**
- AUTOMATION ASSOCIATE DEVELOPER **– [UIPATH]**
- CYBERSECURITY FUNDAMENTALS **– [IBM]**
- ASSOCIATE DATABASE ADMINISTRATOR **– [MongoDB]**
- DATABASES AND SQL **– [RaspberryPiFoundation]**
- Certified in Cybersecurity (CC) **– [ISC2]**

PROJECTS

Heart Failure Prediction using CatBoost | May 2025 – June 2025

- Engineered a robust classification model using **Python** to predict heart failure risk based on clinical parameters.

- Conducted comprehensive **Exploratory Data Analysis (EDA)** and preprocessing, including feature scaling and data normalization using **Pandas** and **Scikit-learn**.
- Evaluated and compared performance across multiple algorithms, including **Logistic Regression, SVM, and Random Forest**.
- Achieved superior model performance using the **CatBoost** classifier, optimizing for high accuracy and **F1-scores**.
- Achieved **94% accuracy** and a **0.92 F1-score** using CatBoost, outperforming Random Forest by 7%

Student Time Management Application | JULY 2025 – OCTOBER 2025

- Architecting a full-stack web application using the **Flask framework** to help students quantify and manage academic task durations.
- Developing a responsive user interface with **HTML, CSS, and JavaScript** to facilitate task input and real-time progress tracking.
- Designing backend logic and **estimation algorithms** to deliver personalized time-management insights and visual data representations.

Pulse Predict Agent | December 2025

- Developed an **Agentic AI system** to assist public hospitals in predicting OP/IP patient flow and optimizing resource allocation.
- Designed AI agents for:
    - Patient inflow prediction
    - Staff allocation recommendations
    - Medicine and oxygen shortage forecasting
    - Automated night-shift report generation
- Utilized data-driven forecasting, rule-based decision logic, and Python-based pipelines to simulate real hospital scenarios.
- Focused on scalability and real-world applicability for government hospitals.

HACKATHONS & ACHIEVEMENTS

Participant – GDG Hyderabad Agentathon (Guinness World Record Holder)

- Participated in the **GDG Hyderabad Agentathon**, which set a **Guinness World Record for the most participants in a single hackathon**.
- Collaborated with diverse teams to build agent-based AI solutions under strict time constraints.
- Gained hands-on exposure to large-scale collaborative AI development and real-world problem solving.

WORK EXPERIENCE

Club Lead | The Codes Club – RGM College of Engineering and Technology
Nov 2025 – Present

- Led and mentored **40+ students** in **Python, SQL, DSA, and introductory Machine Learning**, accelerating hands-on technical proficiency.
- Organized **6+ technical workshops and coding challenges**, increasing active student participation and peer learning across campus.