

Shaik Rehaan Ashraf

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PROFESSIONAL SUMMARY

Motivated Computer Science student with a strong foundation in Core Java, Python, OOPs, DBMS/SQL, and DSA, eager to contribute to the development of high-quality software solutions. Published three research papers at ICCCNT on ensemble machine learning, interpretable malware detection, and privacy in distributed systems, demonstrating expertise in problem-solving, data analysis, and scalable AI solutions. Proficient in version control (Git), SDLC participation, and software validation/testing practices. Exhibits a growth mindset, adaptability in fast-paced environments, ethical conduct, and excellent communication skills. Passionate about collaborating within multidisciplinary teams to deliver impactful solutions while continuously upskilling in emerging technologies.

EDUCATION QUALIFICATION

Amrita Vishwa Vidyapeetham, Kerala, BTech in Computer Science

- CGPA: 7.52

Narayana Junior College, Nellore, Intermediate Education in Science

- Percentage: 87.3

Narayana Olympiad School, Nellore, High School Education

- Percentage: 99.3

PROJECTS

Diamond Clarity Prediction Using Machine Learning

Tools Used: Python, Kaggle, PyCaret

Designed and developed scalable ML models (Logistic Regression, Random Forest, SVM) using PyCaret and Kaggle, focusing on clean, efficient code and structured SDLC phases. Evaluated models with precision, F1-score, and accuracy, ensuring high-quality outputs while collaborating on testing and validation processes aligned with production standards.

Secure Share – Secure File Sharing System

Tools Used: JavaScript, Express.js, MongoDB, Node.js, Postman

Developed a secure file-sharing system with AES-256 encryption, RSA key exchange, and JWT authentication with bcrypt hashing. Focused on clean code, structured testing, and validation while collaborating with team members to align with security best practices and SDLC workflows.

Real Estate Management System

Tools Used: PostgreSQL, SQLite, Python

Designed a structured database with CRUD operations, search, and data validation for managing real estate data efficiently. Focused on code quality, system reliability, and SDLC adherence, while collaborating in a team-driven development environment.

Research Publications

Enhancing Diamond Clarity Prediction Using Ensemble Machine Learning Models

ICCCNT-2025

- Developed ensemble ML models for precise diamond clarity grading using Python and PyCaret.

Interpretable Malware Detection Using a Self-Attention Augmented 1D CNN

ICCCNT-2025

- Designed a self-attention-based CNN for malware detection, enhancing interpretability and cybersecurity applications.

Evaluating Multi-User Privacy Conflict over Distributed Cloud Environment ICCCNT-2025

- Investigated and proposed privacy conflict resolution solutions in distributed cloud environments.

SKILLS

- **Programming Languages:** Core Java, Python, C, C++ , JavaScript
- **Concepts:** OOPs, DBMS/SQL, Version Control (Git), Object-Oriented Design Principles
- **Problem-Solving:** DSA, structured debugging, validation and testing
- **Web Development & Backend:** HTML5, CSS, Express.js, Node.js
- **Databases:** PostgreSQL, MongoDB
- **ML & AI:** Ensemble Models, Deep Learning, Fine-tuning
- **Frameworks & Tools:** PyCaret, scikit-learn, TensorFlow, Postman
- **Soft Skills:** Growth mindset, adaptability, collaboration, ethics, communication

AREAS OF INTEREST

Generative AI, Software Engineering, Cloud Computing, Full-Stack Development, Machine Learning, AI-Driven Security

ONLINE COURSES

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|---|-------------|
| • Machine Learning with Tree-Based Models | 03-Dec-2024 |
| • Linear Classifiers in Python | 15-Nov-2024 |
| • Introduction to Data Science in Python | 03-Oct-2024 |
| • Supervised Learning with scikit-learn | 28-Sep-2024 |
| • Understanding Machine Learning | 10-Sep-2024 |
| • Importing Data in Python | 12-Jul-2024 |

SOCIAL STUDENT RESPONSIBILITY (SSR) PROJECT ON HEALTH AND WELL-BEING

Led health awareness workshops for Grade 4 students on hygiene and nutrition using interactive activities, achieving measurable improvements in students' adoption of healthy practices.

HOBBIES

Running, Weightlifting, Film Critique Writing

LANGUAGES

English, Hindi, Telugu, Urdu