Ratandeep purohit

Software Engineer

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Languages Known: English, Hindi

GitHub: https://github.com/Ratandeep-purohit

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Objective:

Motivated MCA student with strong Python skills, research experience, and a solid foundation in software engineering. Seeking a challenging role as a Software Engineer or Python Developer to contribute to high-quality software development, apply analytical and problem-solving skills, and grow within a dynamic organization. Preparing for GATE for M. Tech to further strengthen technical expertise and research capabilities.

Education: -

1. Master of Computer Applications (MCA)

Silver Oak University, Ahmedabad
Status: Pursuing | Duration: 2025 – 2027

2. Bachelor of Computer Applications (BCA)

Shree Jain PG College, Bikaner
Maharaja Ganga Singh University
Year of Completion: 2025 | CGPA:7.72

Skills: -

- **Programming Language's:** Python (Advance), Java (Advance), C++ (Basics), PHP(Basics)
- **Software & Tools:** MS Office 360, Linnwork's, Microsoft Business Central, Git & GitHub, LinkedIn, Postman, MySQL.
- **IDEs & Environment:** VS Code, PyCharm, Jupiter Notebook, Replit, Android studio, Windsurf (formerly Codeium)

- **Development Concept:** Object-Oriented Programming (OOP), Data Structures, IoT Basics, Database Management Systems (DBMS), Web Development Fundamentals, Problem Solving & Algorithm Design.
- **Software Engineering:** Software Development Life Cycle (SDLC), Agile & Waterfall Methodologies, Requirement Analysis & Design, Software Testing (Unit & Integration Testing), Version Control (Git/GitHub), Project Documentation & Maintenance.
- **Framework & Libraries: -** Pandas, NumPy, Matplotlib/seaborn, flask, Django, SQLAlchemy, OpenCV, FastAPI (Basic), Requests + Beautiful Soup(basic)
- **Soft Skills: -** Analytical Thinking, Adaptability & Quick Learning, Attention to Detail, Time Management & Prioritization, Collaboration in Cross-Functional Teams, Problem-Solving Mindset, Creative & Critical Thinking, Decision-Making Under Pressure, Continuous Learning Attitude.

Project:

1. **AI-Powered Online Exam Monitoring System**

Tech Stack: *Python, OpenCV, AI/ML, MongoDB, Facial Recognition, Cloud Storage.*

- Developed a secure online examination platform with AI-based proctoring and facial recognition for student authentication.
- Automated detection of suspicious behaviour, session logging, and alert system, reducing manual supervision.
- Scalable design for schools, colleges, and competitive exam platforms.
- GitHub: https://github.com/Ratandeep-purohit/OnlineExamSystem

2. **AI-Powered Fake News Detection System**

Tech Stack: *Python, Streamlit, Scikit-learn, NLP, TF-IDF, Logistic Regression, PostgreSQL, Seaborn, Plotly*

- Built a real-time news verification system classifying articles as "Fake" or "Real" using NLP & ML.
- Developed an interactive web interface with analytics dashboards and user-friendly prediction history.
- Integrated PostgreSQL for efficient data storage and responsive performance for end-users.

- GitHub: https://github.com/Ratandeep-purohit/FakeNewsDetector

3. **Java Swing Expense Tracker**

Tech Stack: *Core Java, Swing GUI, CSV Storage, MVC & Observer Patterns.*

- Developed a personal finance management app with modern GUI, transaction management, and category tracking.
- Implemented advanced filtering/search, live financial summaries, monthly reports, and visual analytics.
- Ensured data persistence with CSV storage, automatic backups, and import/export functionality.
- Applied software design patterns (MVC, Observer, Strategy, Factory) for scalable and maintainable architecture.
- GitHub: https://github.com/Ratandeep-purohit/java-expense-tracker

Certificates: -

1. **Python Course for Beginners —*Scaler Topics · Nov 2025***
   - Completed a structured Python curriculum focusing on real-world development practices.
   - Gained hands-on experience with core programming fundamentals: variables, data types, control flow, functions, error handling, and modular coding.
   - Learned essential data structures (lists, tuples, sets, dictionaries) and applied them in practical coding tasks.
   - Strengthened problem-solving skills through coding challenges and scenario-based assignments.
   - Built the ability to write clean, optimized, and production-friendly Python code suitable for modern applications.
2. **Computer Networking — *Scaler Topics • Nov 2025***
   - Core concepts of computer networks, OSI & TCP/IP models
   - IP addressing, subnetting, routing & switching fundamentals
   - Network configurations, protocols & troubleshooting
   - Understanding LAN/WAN, DNS, DHCP, HTTP/HTTPS
   - Hands-on experience with real-world networking challenges

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Interests:

- **AI & Machine Learning Exploration** – Building smart applications and

experimenting with NLP, Computer Vision, and predictive models.

- **Open-Source Contribution** – Actively exploring GitHub projects and contributing to community-driven software.
- **Data-Driven Decision Making** – Analysing datasets to uncover patterns, trends, and actionable insights.
- **Tech Blogging & Knowledge Sharing** – Writing about programming, software trends, and project learnings.
- **IoT & Smart Systems** – Experimenting with connected devices and automation for real-world applications.
- **Research** – Conducting independent and collaborative research in computer science and emerging technologies.
- **Space Science** – Exploring astronomy, astrophysics, and futuristic space technologies.
- **Gaming** – Engaging with strategy and simulation games to enhance problem-solving and creative thinking.
- **Social media & Digital Trends** – Observing online platforms for technology, marketing, and community engagement insights.
- **Emerging Tech Exploration** – Keeping up-to-date with latest technologies like blockchain, AR/VR, and cloud computing.