

# Vinayak Rajput

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GitHub: <https://github.com/Vinayak-Rajput>

## PROFESSIONAL SUMMARY

Results-driven Computer Science undergraduate (CGPA 9.03) with hands-on experience in software engineering, AI/ML, and cybersecurity. Certified in Cloud Computing, Cybersecurity, DevOps, and Machine Learning from industry leaders (Google, AWS, IBM). Proven track record of designing and deploying applications that improve accuracy, efficiency, and security using Java, Python, TensorFlow, and cloud platforms.

## EDUCATION

- B.E. in Computer Software & Engineering — Bangalore Institute of Technology | CGPA: 9.03 (Nov 2022 – Jul 2026)
- Class XII (CBSE) — Alma Mater School | 93.6% (Apr 2020 – Apr 2021)
- Class X (CBSE) — Alma Mater School | 96.2% (Apr 2018 – Apr 2019)

## EXPERIENCE

### Python Developer Internship/Training— IntrnForte (Nov 2023 – Jan 2024)

- Developed and deployed **Flask-based applications**: 1) Hangman Game, 2) Password Generator using Regex.
- Strengthened understanding of **software engineering practices** and backend API development.

## TECHNICAL SKILLS

- Programming: Java, Python, SQL
- AI/ML: TensorFlow, Scikit-learn, NLP, LSTM, Logistic Regression, Data Preprocessing, Model Deployment
- Cybersecurity: Network Security, Vulnerability Assessment, Secure Application Development, Data Encryption, Access Control
- Cloud & DevOps: AWS, Google Cloud Platform, CI/CD, Docker, Git, DevOps Practices
- Software Development: OOP, DSA, RESTful APIs, MySQL/SQL Server, Agile Methodology
- Tools & Libraries: Flask, Swing, JDBC, .NET, NLTK, Matplotlib

## PROJECTS

1. **Electricity Bill Management System** - *Java, JDBC, Swing, MySQL*
  - Engineered a Java-based billing platform, reducing manual bill processing time by **40%** through automation.
  - Implemented role-based access control to enhance security for admin and customer portals.
  - Optimized MySQL queries, achieving **99% uptime** and faster response.
  - GitHub: [https://github.com/SNEHARAJU21/ELECTRICITY\\_BILLING\\_SYSTEM](https://github.com/SNEHARAJU21/ELECTRICITY_BILLING_SYSTEM)
2. **Sentiment Analysis & Emotion Detection** - *Neural Networks* - *Python, NLP*
  - Developed an LSTM-based sentiment analysis model with **87% accuracy** on 50,000+ text samples.
  - Deployed a Flask API for real-time inference, reducing prediction latency.
  - GitHub: <https://github.com/Vinayak-Rajput/Sentiment-Analysis-Emotion-Detection-NN>
3. **Windows Music/Video Player Application** - *C#, SQL Server, .NET*
  - Created a media player supporting **500+ tracks** with <0.5s load time.
  - Added playlist and album management features, increasing user engagement by **30%**.
  - GitHub: <https://github.com/Vinayak-Rajput/Windows-Music-Video-Player-Application>
4. **Deepfake Detection & Blockchain Logging System** (*Ongoing*) — *Python, TensorFlow, Flask, Ethereum (Ganache), OpenCV*
  - Developing a hybrid system for **image/video deepfake detection** using CNN-based models with frame-level analysis and confidence scoring.
  - Implemented **blockchain logging** via Ethereum smart contracts to ensure **tamper-proof, auditable records** of detection results.
  - GitHub: <https://github.com/Vinayak-Rajput/DeepFake-Images-Videos-Detection-and-Authentication>

## CERTIFICATIONS

- Juniper Security Associate Certification — JNCIA-SEC (2025) ([Link](#))
- Google Cloud Computing Foundations — Google (2025) ([Link](#))
- Google Cybersecurity Specialization — Google/Coursera (2024) ([Link](#))
- AI Course (Code for Challenge – 2024) — IBM (2024) ([Link](#))
- Introduction to Machine Learning — NPTEL (2023) ([Link](#))

## ACHIEVEMENTS

- Ranked in top 25% of B.E. Computer Science program.
- Delivered 4 production-ready applications with measurable performance improvements.
- Completed industry-recognized certifications in AI, ML, Cloud, and Cybersecurity.