



SABARNA SARKAR AI/ML Engineer

Passionate tech consultant with 2+ years of experience. Proficient in various programming languages and frameworks, delivering high-quality software solutions. Adaptable and innovative, thriving in collaborative environments.

✉ rssarkar26@gmail.com
📍 Kolkata, India
🌐 github.com/Sabarna-dotcom

📞 7890699646
🌐 linkedin.com/in/sabarna-sarkar

💼 Work Experience

Assistant System Engineer, TCS
Feb 2021 - July 2023, Bangalore, India

- Worked within Scrum teams to foster efficient development cycles.
- Collaborated with clients to analyze requirements, create test cases, and ensure quality assurance.
- Specialized as a React.js Developer, building dynamic UI components.

🎓 Education

M.Tech, Computer Science & Engineering
National Institute of Technology (NIT) Jamshedpur, 2023-25 (CGPA: 8.41 UP to 3rd Sem)

B.Tech, Electronics & Communication Engineering
Academy of Technology (MAKAUT), 2016-20 (CGPA: 8.06)

Higher Secondary (10+2), PCM
WBCHSE, 2014 - 2016 (82.20%)

Secondary Education (10th)
WBBSE, 2008 - 2014 (86.86%)

⚙️ Technical Skills

- C++, Python, Data Structures, DBMS
- EDA, SQL, Power BI
- Machine Learning, Flask, MLOps
- React.js, Node.js, Express.js, NoSQL/MongoDB
- Git/GitHub, Docker, AWS

🏆 Certifications & Achievements

- **2nd Best Paper Award** - "A Hybrid Fuzzy AHP-*VIKOR* Framework for Systematic Evaluation and Ranking of Metaverse Applications", presented at **SCMIM-2025**.
- **Paper Presentation** - "A Systematic Literature Review on the Privacy and Security of Cloud-Integrated AI-Enabled Internet of Medical Things (IoMT)", presented at **SCMIM-2025**.
- **Best Team Award** - TCS DCP New Sales.
- **TCS Wings1 Certified** - React.js.
- **GATE CSE 2023** - 96 Percentile.

🗣️ Languages

- English - Full Professional Proficiency
- Bengali - Native or Bilingual Proficiency
- Hindi - Limited Working Proficiency

🔧 Projects

Student Performance Predictor (Dec 2024 - Jan 2025)

- Developed an ML model to predict student performance.
- Conducted data pre-processing, feature selection, and evaluation.
- Tools: Python, Scikit-learn, Pandas, NumPy, Flask, Docker, AWS EC2.

Fire Weather Index Predictor (July 2024 - Aug 2024)

- Predicted fire weather index (FWI) using ridge regression.
- Conducted data pre-processing, feature selection, and evaluation.
- Tools: Python, Scikit-learn, Pandas, NumPy, Flask, AWS Beanstalk, AWS CodePipeline.

🔬 Research Work

- **AHP-*VIKOR* for Metaverse Application Ranking** – Ranked metaverse domains using hybrid MCDM; **Healthcare** emerged as the top application. (**2nd Best Paper – SCMIM-2025**)
- **SLR on Security of AI-Enabled IoMT** – As Healthcare ranked top, this review focused on AI-integrated healthcare systems (IoMT), identifying key security threats and research gaps. (**Presented at SCMIM-2025**)
- **Fuzzy AHP-COPRAS for MCPS Vulnerability Ranking** – Based on the IoMT review, this work ranked vulnerabilities in MCPS System.
- **ML-Based IDS for Hypervisor MitM Detection** – A PCA + Isolation Forest + KNN-based IDS was developed for detecting MitM attacks.
- **DL-Based IDS for Cloud MCPS Hypervisor Security** – To enhance detection accuracy, a CNN-BiLSTM-Transformer model with SMOTE was proposed for hypervisor-level MitM detection in cloud-integrated MCPS.