

# GANESH KHETAWAT

## Software Developer / SDE Intern

📞 +91-8530832422 📩 gkganesh448@gmail.com 💬 linkedin.com/in/ganeshkhetawat

### Summary

Results-driven Software Engineer passionate about full-stack development, cloud computing, and AI-powered systems. Skilled in designing scalable web applications, optimizing backend performance, and deploying intelligent software solutions. Demonstrated expertise in MERN stack, RESTful APIs, and data-driven application development with a focus on clean architecture and agile methodologies.

### Skills

**Programming languages:** C++, Python, JavaScript (ES6+), Java, SQL

**Frameworks Tools:** React.js, Node.js, Express.js, MongoDB, MySQL, Docker, Git, REST APIs, TensorFlow, Azure, AWS

**Concepts:** Data Structures Algorithms, OOP, DBMS, OS, Computer Networks, Software Engineering, Machine

**Development Practices:** Agile, CI/CD Pipelines, Debugging, Unit Testing, Version Control, API Integration Learning

### Experience

#### Software Apprentice

*Betacraft Technologies, (Hybrid)*

November 2025 – Present

Tools Used: *MERN, Node.js, Python*

- Processed and standardized a dataset of over 1,00,000 rows from multiple regions to support weekly analytics—enabled business teams to track KPIs across geography and time.
- Designed smart Excel templates embedded with lookup functions and pivot logic, saving 40% reporting time across 4 departments.
- Developed and maintained Power BI dashboards to visualize revenue trends, customer mix, and monthly performance—regularly used by managers and analysts across business units.
- Collaborated with 4 analysts and 2 senior managers to define and validate 6 KPIs, improving report reliability and strategic alignment.

#### AI: Transformative Learning with TechSaksham

*Microsoft, Edunet Foundation (Remote)*

December 2024 – March 2025

Tools Used: *Python, Scikit-learn, Pandas, NumPy*

- Developed SMS and Email Spam Detection models using supervised machine learning, achieving 92–95% accuracy across multiple classifiers.
- Preprocessed and engineered features from 10,000+ messages using text normalization, tokenization, and TF-IDF.
- Built end-to-end ML pipelines (data preprocessing → training → evaluation) and reduced false positives by ~20% through model optimization.
- Evaluated models using Precision, Recall, F1-Score, and Confusion Matrix, adhering to Responsible AI practices.

### Projects

#### DevConnect – MERN Developer Community Platform | *React, Node.js, MongoDB, Socket.io*

2024

- Built a full-stack developer networking platform featuring real-time chat, discussion forums, job board, and secure authentication.
- Implemented JWT-based user authentication and role management with protected routes and session handling.
- Integrated Cloudinary for scalable storage of profile images and post media.
- Deployed frontend on Vercel and backend on Render, achieving 98% uptime in production.
- GitHub: [github.com/gkganesh12/DevConnect](https://github.com/gkganesh12/DevConnect)

#### Customer Churn Analysis | *Python*

March 2025 – April 2025

- Analyzed behavior of 7,043 telecom customers to identify churn patterns based on tenure, contract type, and monthly charges.
- Engineered new features including contract type buckets and tenure bands to improve segmentation and insights.
- Generated 11 visualizations (histograms, box plots, heatmaps) to highlight churn-prone segments.

- Revealed that 38% of churned users were on monthly contracts with less than 3-month tenure—suggested early engagement strategies.

### Privacy-Preserving Synthetic Data Generator | *Python, CTGAN, Differential Privacy*

**2025**

- Engineered a **privacy-safe synthetic data generation tool** using **CTGAN** to enable ML workflows without exposing sensitive information.
- Implemented **Differential Privacy metrics** and **model fidelity visualizations** via an interactive **Streamlit** web application.
- **GitHub:** [github.com/gkganesh12/Privacy-Preserving-Synthetic-Data-Generator](https://github.com/gkganesh12/Privacy-Preserving-Synthetic-Data-Generator)

### Sales Dashboard for Regional Performance | *SQL, Power BI*

**February 2025 – March 2025**

- Queried and joined 3 sales-related tables covering over 25,000 rows across 12 months and 5 regions using optimized SQL joins to create consistent, analysis-ready datasets.
- Built 10 dynamic measures and KPIs in Power BI to track regional sales, return trends, and product performance.
- Designed multipage dashboards with slicers and filters, helping stakeholders drill down by region, product category, and time.
- Detected a 14% sales drop post-festival in the South region. Later, the insight was used for a marketing recovery plan.

### HealthCare Portal | *MERN Stack, REST APIs, MongoDB*

**January 2025 – March 2025**

- Designed and developed a full-stack healthcare management system with role-based patient and doctor dashboards, appointment scheduling, and digital medical records.
- Implemented JWT-based authentication and secure REST APIs, ensuring protected access to sensitive healthcare data.
- Built dynamic dashboards and data visualizations to track appointments, patient history, and system usage in real time.
- Structured MongoDB schemas and optimized API workflows to support scalable data retrieval and seamless user interactions.

## Awards & Certifications

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- **Google Data Analytics Certificate – Coursera (2024):** Completed 8 practical case studies involving SQL, data cleaning, dashboard creation, and presentations.
- **Top 5% in SQL HackerRank Challenge (2024):** Ranked among the top 150 out of 3,000+ participants for advanced SQL problem-solving.
- **Oracle Cloud Infrastructure 2025 Certified Generative AI Professional:** Demonstrated expertise in generative AI concepts, LLMs, prompt engineering, and AI deployment on OCI.
- **Oracle Cloud Infrastructure 2025 Certified Data Science Professional:** Gained hands-on experience in data analysis, machine learning workflows, and model deployment on cloud platforms.
- **Microsoft Azure Fundamentals:** Validated foundational knowledge of cloud computing concepts, Azure services, security, and pricing models.
- **Infosys Certified Java Developer:** Proficient in object-oriented programming, core Java, and enterprise application development.
- **TCS iON Career Edge – Young Professional:** Completed industry-focused training in communication, problem-solving, and professional readiness.

## Education

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### BTech Computer Science and AI/ML

*Ajeenkyा DY Patil University, Pune*

**Expected Graduation 2028**

*CGPA: 9.2 / 10*

## Leadership & Activities

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- **Lead Organizer – Hackverse Hackathon (2024–Present):** Led end-to-end planning and execution of a 36-hour hackathon, managing 100+ participants and collaborating with industry mentors and judges.
- **President – Tech Student Association:** Organized technical workshops, coding competitions, and peer mentorship programs, increasing student engagement in core technical skills.
- **President – Cybersecurity & AI Club:** Conducted hands-on sessions on ethical hacking, AI tools, and emerging technology trends to promote practical cybersecurity awareness.