

# Ankit Kamanalli

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Kalaburagi, Karnataka, India

## EDUCATION

### P D A College of Engineering, Gulbarga

Gulbarga, Karnataka

*Bachelor of Engineering in Electronics and Communication Engineering – CGPA: 7.23*

*Dec 2021 – Jul 2025*

## TECHNICAL SKILLS

**Programming Languages:** Java (Core & Advanced), Python, SQL, HTML5, CSS3

**Frameworks & Libraries:** Hibernate, JDBC, Jakarta EE, J2EE

**Web Technologies:** Servlets, JSP

**Databases:** MySQL, Database Design, SQL Query Optimization, JDBC

**Tools & Platforms:** Git, GitHub, Maven, VS Code, Eclipse, Arduino, IoT Integration

**Core Competencies:** Full Stack Development, Object-Oriented Programming, Problem Solving, Team Collaboration, Code Review

## EXPERIENCE

### Java Full Stack Developer Trainee

Jul 2025 – Present

*TAP Academy*

*Bengaluru, Karnataka*

- Undergoing intensive Full Stack Java Development training covering core to advanced concepts including Java, Spring Framework, Spring Boot, and database integration with MySQL
- Building scalable web applications using Spring Boot, implementing RESTful APIs, and applying Object-Oriented Programming principles for robust software design
- Developing responsive front-end interfaces using HTML5, CSS3, and JavaScript, ensuring cross-browser compatibility and optimal user experience
- Implementing backend services using Jakarta EE, Servlets, JSP, and Hibernate ORM for efficient data persistence and retrieval operations
- Collaborating in Agile development environments, participating in code reviews, and following Git version control best practices
- Solving complex algorithmic problems and optimizing code performance, enhancing problem-solving, debugging, and communication skills through real-world coding challenges

### IoT Development Intern

Nov 2023 – Jan 2024

*Govt. Tool Room & Training Center*

*Kalaburagi, Karnataka*

- Developed IoT solutions including Smart Parking Lot and Line-Following Robot using Arduino, demonstrating embedded systems programming skills
- Integrated ESP32 and Arduino Cloud for real-time data monitoring and control, implementing cloud-based IoT architectures
- Designed embedded control programs for sensor-based systems, applying programming logic and hardware-software integration
- Gained hands-on experience with PLC programming and industrial automation systems

### Content & Social Media Strategy Intern

May 2024 – Jul 2024

*Chamberly*

*Kalaburagi, Karnataka*

- Designed engaging visuals for Instagram and LinkedIn using graphic design tools, boosting brand presence and user engagement by 30%
- Planned and executed creative content strategies, demonstrating strong communication and project management skills
- Collaborated with cross-functional teams to deliver consistent brand messaging across digital platforms

## PROJECTS

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### Smart ECG Analysis and Heart Condition Detection using AI | *Python, ML, Deep Learning, CNN-LSTM* 2024

- Developed an AI-powered system for automated ECG signal analysis and heart condition detection, selected for 48th Series SPP Exhibition by KSCST
- Implemented deep CNN-LSTM architecture to capture spatial inter-lead and temporal features of 12-lead ECG signals
- Applied advanced signal processing techniques including bandpass filtering, baseline wander removal, normalization, and R-peak detection
- Achieved approximately 70% accuracy with robust macro-F1 performance on PTB-XL dataset using patient-wise train/test splits
- Demonstrated strong analytical thinking and problem-solving skills in healthcare technology and machine learning domain

### Bank Management System | *Java, JDBC, MySQL, OOP* | [GitHub](#) 2024

- Developed a minimal banking application in Java using pure JDBC for database connectivity without any frameworks
- Implemented core banking operations including user registration, account management, deposits, withdrawals, and balance checking via CLI
- Designed modular architecture with separate classes for database connection, business logic, and user interface following OOP principles
- Utilized MySQL database for secure and efficient data storage and retrieval, demonstrating strong database design and JDBC skills

### Simple Travel Agency Website | *HTML5, CSS3, Responsive Design, JavaScript* 2024

- Built a fully responsive, cross-platform travel agency website using HTML5 and CSS3 with modern design principles
- Optimized for smooth navigation, clean design, and excellent user experience across desktop and mobile devices
- Implemented JavaScript functionality for interactive features and dynamic content loading

## CERTIFICATIONS & ACHIEVEMENTS

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**48th Series SPP Project Exhibition:** Certificate of Selection & Presentation for Smart ECG Analysis project – KSCST

**LeetCode SQL 50 Badge:** Demonstrated proficiency in SQL query writing and database problem-solving

**Java (Basic) Certification:** Validated foundational knowledge in Java programming concepts and syntax

**PLC, Automation, IoT Certification:** Govt. Tool Room & Training Center

**Social Media Content Creation Certification:** Chamberly