

# Khushi S M

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## PROFESSIONAL SUMMARY

Software Engineer with hands-on experience in Java full-stack development and ML. Skilled in Core Java, Spring Boot, REST APIs, and deployment workflows; currently focused on Backend Java-Spring Development

## EDUCATION

### Presidency University

Bangalore, India

*Bachelor of Technology in Computer Science - Data Science — CGPA: 8.10/10.0*

June 2025

- Relevant Coursework: Machine Learning, Deep Learning, Data Structures and Algorithms, Statistics, Database Management, Artificial Intelligence

## WORK EXPERIENCE

### Capgemini Technology Services

July 2025 – Present

*Software Engineer*

Bangalore, India

- Completed Capgemini training in **Core Java** — OOPs, collections, multithreading, exception handling and Java 8+ features (streams, lambdas).
- Built and tested RESTful services using **Spring Boot** (controllers, validation, exception handling) and **Spring Data JPA** for persistence.
- Familiar with build tools (**Maven/Gradle**), version control (**Git**), and containerization with **Docker**.
- Currently undergoing training on **IBM Sterling Integrator** for enterprise B2B integrations and message orchestration.

### Newspace Research and Technologies

January 2025 – July 2025

*Machine Learning Intern*

Bangalore, India

- Developed Reinforcement Learning algorithms using Proximal Policy Optimization (PPO) and Actor-Critic methods for autonomous drone control, achieving 90% stability improvement from baseline 65%
- Implemented custom reward functions and termination conditions using Python and TensorFlow, resulting in 93.33% mission success rate with zero collision incidents
- Applied Deep Reinforcement Learning techniques for real-time decision making in complex flight scenarios with PID controller integration

## TECHNICAL PROJECTS

### Real-Time Chat Application — Java, Spring Boot, WebSocket, STOMP, Bootstrap

June 2025

- Built full-stack real-time messaging application using WebSocket protocol with STOMP messaging, achieving sub-second latency for concurrent user handling
- Implemented REST API design with Spring Boot framework and responsive Bootstrap UI for seamless message broadcasting

### Task Management Web Application — Spring Boot, MySQL, Spring Data JPA, Thymeleaf

April 2025

- Engineered full-stack application using Spring Boot, JPA, and MySQL Database Management with CRUD operations and MVC architecture
- Optimized data handling with Lombok annotations, reducing boilerplate code by 30% and improving application performance

### Book Recommendation System — Python, Pandas, NumPy, OpenAI API, Streamlit

November 2024

- Built hybrid recommendation engine using Collaborative Filtering, Content-Based Filtering, and Matrix Factorization algorithms with 85% accuracy
- Processed 100,000+ records using Pandas and NumPy for Data Preprocessing and Feature Engineering, integrated GPT-3.5-turbo API for automated content generation
- Deployed interactive web application using Streamlit with caching optimization, reducing response time by 30%

### Potato Disease Classification — Python, TensorFlow, Keras, Computer Vision, CNN

July 2024

- Developed Convolutional Neural Network model achieving 98% classification accuracy using TensorFlow and Keras frameworks
- Applied Computer Vision techniques with Data Augmentation strategies and advanced preprocessing for model robustness and generalization

## TECHNICAL SKILLS

**Programming Languages:** Java, Python, SQL, C Programming, HTML5, CSS3, JavaScript

**Machine Learning & AI:** TensorFlow, PyTorch, Scikit-learn, Keras, OpenCV, Natural Language Processing, Computer Vision, Neural Networks

**Data Science & Analytics:** Pandas, NumPy, Matplotlib, Statistical Analysis, Data Visualization, Predictive Analytics, Feature Engineering

**Cloud & Frameworks:** AWS, Docker, Spring Framework, Spring Boot, Spring Security, Streamlit, REST APIs, Git Version Control

**Databases & Tools:** Spring Data, JDBC, JPA, MySQL, Power BI, Jupyter Notebook, ETL Pipelines, Big Data Processing

## CERTIFICATIONS & ACHIEVEMENTS

Udemy Certifications in Java Programming, Spring Framework, AWS, Docker and Python for Data Science & Machine Learning.

Proficient in Data Structures & Algorithms with hands-on problem-solving practice.

Knowledge of SDLC and Agile methodologies, applied in academic and project work.