# AFZAL KHAN

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## PROFESSIONAL SUMMARY

Computer Applications graduate specializing in full-stack development, machine learning, and artificial intelligence. Proficient in Python, JavaScript, Django, and React with hands-on experience creating scalable web applications. Strong problem-solving abilities demonstrated through completion of over 200 algorithmic challenges on HackerRank. Passionate about leveraging technology to build innovative solutions. Seeking software developer role to contribute technical expertise and drive measurable results.

## EDUCATION

**Bachelor of Computer Applications (BCA)**                                        Bangalore, India
*SJR College of Commerce and Science*                          *Expected Graduation: August 2026*

## TECHNICAL SKILLS

**Programming Languages:** Python, JavaScript, SQL, C, C++,. Java, TypeScript
**Web Frameworks:** Django, FastAPI, Flask, React, Next.js, Node.js
**Frontend Technologies:** HTML5, CSS3, TailwindCSS, Bootstrap
**Backend Technologies:** Django REST Framework, Express.js
**Machine Learning:** TensorFlow, PyTorch, Scikit-learn, Pandas, NumPy, LangChain
**Databases:** PostgreSQL, MySQL, MongoDB
**DevOps and Cloud:** Git, GitHub, Docker, Kubernetes, AWS, Google Cloud Platform
**Data Visualization:** Power BI, Tableau, Matplotlib, Chart.js, Recharts
**Soft Skills:** Problem Solving, Team Collaboration, Agile Methodology, Communication

## WORK EXPERIENCE

Fresher

## PROJECTS

**Chemical Equipment Parameter Visualizer**                          January 2024 – Feb 2024

- Engineered full-stack web platform for industrial equipment analysis featuring CSV upload, automated processing, and real-time interactive dashboards
- Constructed Django REST APIs with PostgreSQL integration achieving 40 percent faster query responses through optimized indexing
- Developed dynamic visualization components using React and Chart.js enabling operations teams to detect anomalies 60 percent quicker

**AI-Powered Movie Recommendation Engine**                          June 2024 – July 2024

- Designed machine learning system processing MovieLens dataset with over 100,000 ratings utilizing TF-IDF vectorization and cosine similarity to achieve 85 percent accuracy
- Built high-performance FastAPI backend delivering inference results in under 200 milliseconds per request while handling concurrent queries
- Integrated ML pipeline with modern React frontend implementing embedding-based similarity search for personalized recommendations

**Ollama Code Explanation Tool**                          September 2023 – November 2023

- Created AI-powered developer productivity application leveraging local Large Language Models through Ollama for intelligent code explanations across multiple languages

- Established FastAPI backend architecture with advanced parsing and syntax analysis capabilities reducing onboarding time by 30 percent
- Designed intuitive user interface with syntax highlighting and contextual documentation improving code comprehension for junior developers

**Animated AI Chat Interface**                                    April 2023 – May 2023

- Built responsive conversational interface using Next.js and TypeScript supporting seamless experiences across mobile, tablet, and desktop devices
- Implemented smooth animations through Framer Motion library increasing user engagement by 45 percent with dark and light theme options

## ACHIEVEMENTS

- **Smart India Hackathon:** Participated in national-level hackathon developing AI-powered automated email response system utilizing natural language processing

- **HackerRank Excellence:** Earned 5-star proficiency ratings in Python and SQL by solving over 200 data structures and algorithms challenges

- **Open Source Contributions:** Active contributor to Python ecosystem projects on GitHub focusing on data processing utilities

## CERTIFICATIONS

Google Cloud Platform – Introduction to Artificial Intelligence and Machine Learning (2024)
NVIDIA Deep Learning Institute – Building Large Language Models with Prompt Engineering (2024)
Oracle Cloud Infrastructure – Generative AI Professional (2024)
Microsoft – Python for Data Science and Machine Learning (2023)
FreeCodeCamp – Data Analysis with Python (2023)
Infosys Springboard – Programming with Java (2023)