

# AKANKSHA C. KHANDARE

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## SUMMARY

Enthusiastic software engineer with experience in software development, data science, and AI. Proven ability to tackle complex challenges and create innovative solutions. Skilled in Python, machine learning, microservices, and prompt engineering. Adept at working collaboratively in team environments to achieve outstanding results. Always eager to learn new technologies and enhance technical expertise.

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## SKILLS

Languages: Python, SQL, C

Data Science & ML: Statistics, Exploratory Data Analysis (EDA), Feature Engineering, Machine Learning, Recommendation Systems,

Visualization Tools: Tableau, Matplotlib, Seaborn

Development Tools: Jupyter Notebook, Visual Studio Code

Other: CAD, Prompt Engineering, Generative AI

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## WORK EXPERIENCE

### Engineer - Tata ELXSI, Pune | Dec 2023 - May 2025

- Developed and maintained Python-based microservices for automotive applications.
- Automated and validated Body Control Module (BCM) functionalities across platforms.
- Contributed to Generative AI initiatives with prompt engineering and automation.

### Python Intern - Adroitec Engineering Solutions, Hyderabad | Jan 2023 - May 2023

- Supported PLM data management and workflow tasks for engineering teams.
  - Utilized Windchill to perform process optimizations and maintain product data integrity.
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## EDUCATION

B.Tech, Mechanical Engineering (7.35 CGPA) - SGGSIE&T, Nanded | 2019-2023

HSC (72.40%) - Rajarshri Shahu Mahavidyalaya, Latur | 2016-2018

SSC (85.40%) - Swami Vivekanand Vidyalaya, Kajj | 2015-2016

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## PROJECTS

### IVI-DMS (In-Vehicle Infotainment – Driver Monitoring System)

- Developed and maintained Python-based **microservices** to support automotive infotainment features.
- Designed APIs and integrated system components for seamless communication.
- Performed automated testing and data validation to ensure system reliability.

## **Generative AI & Prompt Engineering**

- Developed an **AI**-powered chatbot using **Python** and **Generative AI** models to handle interactive queries.
- Applied **prompt engineering** techniques to optimize responses and improve conversation accuracy.
- Automated workflows and enhanced AI experimentation using **Jupyter Notebook** for rapid prototyping.

## **Movie Recommendation System**

- Built a hybrid recommendation engine using **Content-based Filtering** and **Collaborative Filtering** in Python.
  - Conducted **Exploratory Data Analysis (EDA)**, **feature engineering**, and visualized insights using **Matplotlib**, **Seaborn**,
  - Processed and analyzed datasets using **Pandas**, creating personalized movie recommendations based on user ratings, genres, and descriptions.
  - Applied **Machine Learning** techniques to enhance recommendation accuracy and user experience.
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