

# Khushbunaz Dalal

Computer Science

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## SUMMARY

Results-driven AI/ML Engineer with a strong foundation in machine learning, deep learning, and AI-driven solutions. Experienced in data preprocessing, model training, and AI deployment. Passionate about building intelligent systems that drive business impact. Skilled in Python, PyTorch, TensorFlow, and AI model optimization.

## EDUCATION

**Bachelor of Engineering in Computer Science**, LJ University Sep '21 — May '25  
Ahmedabad, India

## PROFESSIONAL EXPERIENCE

**Python and Machine Learning Intern** Nov '24 — Present  
BrainyBeam Technologies Pvt. Ltd. Ahmedabad, India

- Designed and optimized machine learning models for predictive analytics.
- Conducted feature engineering and data preprocessing for enhanced accuracy.
- Improved model performance by tuning hyperparameters and using ensemble learning.

**Python Developer Intern** Nov '23 — Mar '24  
Oceanmtech Pvt Ltd Ahmedabad, India

- Developed AI-powered web applications using Flask and Python.
- Worked on data pipelines and API integration for ML model deployment.
- Optimized Python scripts for faster computation and efficiency.

**Python Developer** Oct '22 — Present  
Freelancer Ahmedabad, India

Automated 3D modeling using Blender Python API for AI-driven design optimization.  
Developed AI-based Telegram bots for workflow automation.  
Debugged and optimized chatbot algorithms for better user interactions.

## PUBLICATIONS

**"Enhanced Movie Recommendation Systems: Integrating Collaborative Filtering with Content-Based Approaches for Improved User Experience"** Feb '25  
International Journal of Innovative Research in Computer Technology (IJIRCT)  
**Publication Link:** [IJIRCT Paper](#)

This research explores hybrid movie recommendation systems by integrating collaborative filtering with content-based approaches. It addresses data sparsity, optimizes similarity metrics, and incorporates metadata-driven enhancements to improve recommendation accuracy. The study leverages machine learning techniques, including cosine similarity, demographic filtering, and sentiment analysis, to refine user preferences and enhance personalization in modern recommendation engines.

## PROJECTS

**Heart\_Disease\_Prediction** [Link](#)

- Developed a heart disease prediction model using machine learning classification techniques (SVM, Random Forest).
- Leveraged Matplotlib and Power BI for advanced data visualization and insights.

**AI-Powered-Desktop-Application** [Link](#)

- Built a Tkinter-based AI-powered application for automated student record management.
- Implemented OCR and NLP-based document classification for enhanced searchability.

**Restaurant\_Management\_System** [Link](#)

- Built a console-based system in Java for efficient order management using ArrayDeque.
- Ensured persistence and user interaction through robust file operations.

**Fashion\_Recommendation\_System** [Link](#)

- Built a personalized fashion recommendation system using collaborative filtering and content-based approaches.
- Used Scikit-learn, Pandas, and Flask to deploy an interactive AI-driven recommendation model.

**LeadGenius\_Scraper** [Link](#)

- Automated Web Scraping: Extracts key business data from multiple sources.
- Data Cleaning & Deduplication: Ensures high-quality, unique leads.

SKILLS

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**Programming** Python, Java, C, JavaScript  
**Web Development** HTML5, CSS3, ReactJS, Node.js, Django, Express.js  
**Data Science & Analytics** Pandas, Scikit-learn, Power BI, NumPy, Feature Engineering, Data Preprocessing  
**Database Management** MySQL, MongoDB  
**Tools** Blender, Flask, Tkinter  
**AI & Machine Learning** Deep Learning (TensorFlow, PyTorch), Computer Vision, NLP

CERTIFICATIONS

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[Google I/O 2025](#), Google for Developers  
**Microsoft Certified Azure AI Fundamentals**, Microsoft Learn Student Ambassadors  
[Exploratory Data Analysis For Machine Learning](#), IBM  
[Building Generative AI-Powered Applications with Python](#), IBM  
[Data Structure](#), UC San Diego  
[HTML,CSS and JavaScript for Web Developers](#), John Hopkins University

ACHIEVEMENTS

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**Freelancing**  
Successfully managed multiple freelance projects, receiving excellent client feedback. Achieved measurable improvements in predictive modeling and application development efficiency.

**NASA Hackathon Participant**  
NASA  
Participated in a NASA-sponsored hackathon, developing a prototype for efficient data visualization in space exploration.

VOLUNTEERING

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<b>AI/ML Research Volunteer</b> , Omdena	Remote Mar '25 — Present
Contributing to the "Automating Digital Document Indexing" project. Applying NLP, OCR, and Machine Learning to automate document processing. Collaborating with global AI experts to build an open-source AI solution	