



ARSHDEEP KAUR

SOFTWARE DEVELOPER • LUDHIANA, INDIA • +91 88727 81496

• DETAILS •

Ludhiana
India
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• LINKS •

[linked in](#)

• SKILLS •

Advanced Analytical Thinking

Python

django

flask

no-sql(mongodb)

AI

Machine learning

Restful API's

UI UX expert

NLP

Tensorflows

Pandas

Transformers

FastAPI

GEN AI

LANGCHIN

• PROFILE •

Software Developer with 4 years of experience in developing web solutions for live production environments. Proficient in Python, Django, AI, and machine learning, with a proven track record of solving complex problems across cloud, mobile, and web platforms. Collaborates effectively with cross-functional teams to transform complex requirements into robust software enhancements. Committed to delivering high-quality work and staying updated with emerging technologies.

• EMPLOYMENT HISTORY •

software development engineer at zestgeek solutions pvt ltd, Mohali

February 2024 — February 2025

- As a Software Developer with 4 years of experience, I have successfully lead a team of 10 professionals in developing innovative solutions for Unpod AI Superstore's baby products. Our work primarily utilized vanilla Python for AI and machine learning applications, alongside automation tools such as OpenAI and Django. Additionally, I spearheaded the integration of Optical Character Recognition (OCR) technologies to enhance product functionalities.
- A significant achievement was the development of a dynamic voice agent capable of handling both inbound and outbound calls. This agent not only managed real-time interactions but also extracted call transcripts from the system, enabling us to summarize and determine the purpose of each call efficiently.
- Furthermore, I leveraged open-source financial management tools to optimize the product's profitability. By implementing these solutions, we ensured robust financial oversight, contributing to the company's overall success

Software Development engineer(Sde) at In web works, Ludhiana

April 2022 — February 2024

- Collaborated with a team on projects involving face detection using OpenCV and BERT models.
- Developed language models for text-to-speech and vice versa using machine learning, trained on CSV data using TensorFlow and Google Speech AI concepts.
- Created applications for Expertify, integrating speech recognition to extract expert tags.
- Implemented a model using BERT for obscuring faces in images or from cameras using OCR,
- OpenCV with GPU/TPU, and machine learning, utilizing the Roboflow API.
- Developed a chatbot within certain language models to extract 2D layout coordinates from files, employing mathematical concepts, SciKit-Learn, and Pandas to process CSV datasets for civil engineering projects, visualizing coordinates on graphs.

◦ **Software Development engineer(sde) at tekki web solutions, ludhiana**

January 2021 — February 2022

- Addressed and fixed complex bugs.
- Implemented and updated application modules under the direction of Senior Software Developers.
- Worked at an independent level, while also serving as an effective and enthusiastic collaborator.
- Performed automated testing tasks and developed complex features routinely.

★ **PROJECTS**

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- **Unpod.ai** – A GenAI project built with LangChain
 - **Superstore** – A GenAI-powered application using Django and LangChain
 - **2D Housing Layout** – A GenAI-driven OCR-based AI project for housing layouts
 - **Expertify Now** – A GenAI-based machine learning project
 - **AI Voice Assistant** – A voice AI project utilizing transformers and NLP with third-party integrations
 - **BMG** – An AI-driven music project deployed with FastAPI, leveraging TensorFlow and transformers

🎓 **EDUCATION**

◦ **Masters in Technology, BABA BANDA SINGH BAHDUR ENGINEERING COLLEGE (PTU), Mohali**

July 2019 — June 2021

I completed my postgraduate studies at Baba Banda Singh Bahadur Engineering College in Fatehgarh Sahib (Mohali district) and published a thesis that explores the use of artificial intelligence to counter blackhole attacks in mobile ad hoc networks (MANETs).

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◦ **Bachelor of Computer Science, QUEST GROUP OF FOUNDATION, Mohali**

September 2015 — May 2018

◦ **Diploma in Computer Scuence Engineering, SATGURU RAM SINGH GOVT. POLYTECHNICAL COLLEGE FOR GIRLS, Ludhiana**

April 2012 — March 2015