

# Punit Kaushik

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## Experience

**Resolute-AI** (AI Engineer Intern)  
(Dec 2024 – Feb 2025)

Worked on more than 10 RAG and agentic workflows, introduced new prompt workflows, and currently working on scalability of RAG applications.  
Developing re-identification (Re-ID) and object detection pipelines (Computer Vision).

## Education

**VIT Bhopal University**  
B.Tech, Computer Science and Engineering, 2022 – present

Madhya Pradesh, India

## Projects

<i>SMOL-CHAR-LM</i>	A custom transformer based SLM written from scratch in Pytorch, with mathematical implementation of Rotatory Positional Embeddings and KV caching. -Technology: Python, Pytorch
<i>Safe-Prompt</i>	Developed a <b>CNN+GRU</b> -based model that uses sentence-level embeddings in <b>700+ dimensions</b> with a <b>BERT-based</b> pre-trained embedding model for detection of malicious prompts. ( <b>Jina-embeddings</b> ). -Technology: Python, TensorFlow, HuggingFace
<i>Phish-knot</i>	A CNN based model that classifies websites into Phishing or non-phishing by utilizing embeddings of the source code. -Technology: Python, TensorFlow
<i>Data-vizor</i>	An agentic RAG based bot that can analyze any kind of csv or excel files and provide statistical insights and plots for the given data. -Technology: LangChain, Python

## Publication

### ***Optimized Computational Strategy for IoT Intrusion Detection Using Robust Deep Neural Networks***

Presented at the Springer 7<sup>th</sup> International Conference on Intelligent Computing and Communication **ICICC-2024**.  
Developed a custom **quantized CNN-LSTM** module that can run on edge devices for IDS

## Technical Skills

**Technologies & Frameworks:** Python, TensorFlow, Pytorch , LangChain and SQL familiar with C, C++ and R

## Extra-Curricular and Achievements:

<b>Achievements:</b>	Kaggle Notebook Expert Successful Submissions in 40+ ML competitions.
<b>Responsibilities:</b>	President/Student Coordinator at AI Club (March 2024 - Present) Machine Learning Co-Lead at GDSC VIT Bhopal (Nov 2023 – May 2024) Technical Team Member at AI Club (Feb 2023 – Feb 2024) Technical Team Member at Data Science Club (Nov 2023 – Feb 2024)
<b>Extra-Curricular:</b>	Featured Speaker at 5 online/offline Engagements.
<b>Certifications:</b>	IBM Professional Engineer (A 6 Certificate Specialization), Custom layers, models loss functions by Deeplearning.ai.
<b>Hobbies:</b>	I enjoy going out for a run, watching anime and reading about Warhammer 40K.