

Arnav Kashyap

Software Engineer

I am a dedicated Application Engineer with a proven ability to deliver high-quality software solutions that meet complex client needs. My two years of experience have honed my skills in problem-solving, design, and implementation. I believe in collaborative teamwork and a commitment to continuous learning. I thrive on challenges and seek opportunities to contribute to teams striving for efficiency and innovation.

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PROFESSIONAL EXPERIENCE

Accenture Pvt. Ltd.

(Dec 2022 - Present)

- Delivered high-quality **automation** scripts in **Databricks** using **Python**, resulting in streamlined monitoring and improved system efficiency.
- Created a user-friendly LLM environment using **RAG** Technique in **Azure** for developers to resolve issues. Deployment in client preprod website.
- Actively pursuing Gen AI advancements through Langchain, Hugging Face, and cloud-based technologies for improved client efficiency and ongoing skill development.

Skills

Language

Python, Java

Generative-AI Technologies

Open Source and paid LLM models (OpenAI, Mistral, Llama2), VectorDb

Tech and Frameworks

Transformers, Rag, Langchain, Groq, HuggingFace, Streamlit, Git/Github

Cloud Platforms

Azure OpenAI Studio, Azure Blob Storage, DataFactory, Azure AI Search, Azure Application Insights, Databricks

Soft Skills

Analytical Thinking, Problem Solving, Teamwork

PROJECTS

Pipeline Failure Monitoring Automation (2024)

(Azure, Python, Databricks)

- It gathers failed pipeline data from **databricks** table which contains logs of all pipelines from **Azure Data Factory**.
- It converts raw log data into a DataFrame using **PANDAS** for easy analysis.
- Sends failure notifications to designated channels (Teams) with a card format via webhook integration using **PyMSTeams** Library.
- It Utilizes the Databricks SMTP server to send email alerts to both the client team and developer team.

Q&A LLM Bot for Developers & Clients (2024)

(Azure, GPT-3.5 Turbo)

- Used **GPT-3.5 Turbo (Azure OpenAI Studio)** for a comprehensive Q&A search bot and **Azure Blob Storage** to store documentation, and relevant development resources and **Azure AI Search** for embeddings (**text-embedding-ada-002**)
- Streamlines issue resolution through quick answers and accurate guidance from the LLM, reducing time spent searching for solutions.
- Used in preprod environment with secure access only for developers and clients using **endpoints**.
- **Two-factor authentication** (2FA) and **prompt design** ensures restricted knowledge base usage, preventing unintended access or data manipulation.

Handwritten Text Recognition System (2022)

- We recognized handwritten characters by projecting them on different sized grids using **Matlab's Neural Network Toolbox**.
- Two important process used are **Feature extraction** technique and **Edge-Based Feature Extraction** Methods for CharacterDetection.
- **Convolutional Neural Network** algorithm is used to train the character data.
- This has produced good results for images containing handwritten text written in different styles, different size and alignment with varying background

SELF PROJECTS			
ATS Integration and Resume Feedback Bot (Google Gemini Pro Vision Model, Python, Streamlit)		<ul style="list-style-type: none">Created a user-friendly interface for seamless input of job descriptions and resume uploads, streamlining the process for candidates to effectively analyze and enhance their resumes with actionable insights and recommendations.Designed and implemented an ATS-enhanced resume analysis tool, utilizing Google Gemini Pro for automated parsing and comparison of resumes against job descriptions,optimize resume alignment with job requirement.Developed features for real-time resume feedback,including detail skill improvement suggestions, keyword gap analysis, and precise percentage match scoring, aimed at enhancing the candidate’s success rate in job applications.	
Summarization Tool for Websites and YouTube Videos (Huggingface,Mistral Model, Python, Streamlit)		<ul style="list-style-type: none">Using HuggingFaceEndPoint integrated with Mistral model and Python, Streamlit for user interaction.Enabled content summarization from YouTube videos (with transcripts) and websites for easy context extraction.Utilized YouTube and Unstructured Loader to fetch and summarize both video and web-based content seamlessly.	
Search Engine (Huggingface,Mistral Model, Python, Streamlit)		<ul style="list-style-type: none">Built an external knowledge retrieval system by integrating DuckDuckGo, Wikipedia, Arxiv, and Serp Wrapper tools to fetch real-time information, enhancing Llama model responses with external data when model knowledge is limited.Enhanced Llama LLM capabilities by developing a dynamic querying mechanism with the help of Tools and Agents that enriches model responses with up-to-date, domain-specific knowledge, improving accuracy of answers.Enhanced user experience by designing an intuitive interface with a query input field. Leveraged GROQ for rapid inference and seamless integration of Llama LLM with tools to generate contextually relevant responses.	
EDUCATIONAL AND SCHOLASTIC ACHIEVEMENTS			
Program	Institution	%/CGPA	Year of completion
B.Tech in Computer Science and engineering	RNS Institute of Technology	7.5/10	2022
XII(CBSE)	Arya Sr. Sec. School	90%	2017
X(CBSE)	Arya Sr. Sec. School	9.6/10	2015
NOTABLE ACHIEVEMENT			
Civilloid – Science Project Expo <ul style="list-style-type: none">Rank 2nd, Project – " LiFi – Light Fidelity " Accenture Pvt. Ltd. <ul style="list-style-type: none">Distinguished as one of the top fresh recruits in a competitive cohort, demonstrating exceptional performance and rapid adaptability.Certificate Of Excellence Completed training with score of 98%			
CO-CURRICULAR AND EXTRA-CURRICULAR ACTIVITIES			
Street Play <ul style="list-style-type: none">Runner Up Skit on Women Empowerment		International Mathematics Olympiad <ul style="list-style-type: none">International Rank 72, 8th class	