

**Name: POOJA PATIL**

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### Objective:

Intend to build a career with a challenging and rewarding position in an esteemed organization to utilize my skills and abilities.

### Professional Summary:

- **AI/ML Computational Science Analyst** with **3 years** of IT industry experience in creating search engines project.
- Data Scientist with a robust foundation in **statistical analysis, machine learning, and data visualization**.
- Proficient in programming languages such as **Python** and **SQL**, enabling efficient data manipulation and analysis.
- Experienced in utilizing libraries and frameworks including **Pandas, NumPy, Scikit-learn, TensorFlow, and PyTorch** for data analysis and model development.
- Skilled in developing and deploying machine learning models to extract actionable insights from complex datasets, driving informed decision-making.
- Adept at creating compelling data visualizations using tools like **Tableau, Matplotlib, and Seaborn** to effectively communicate findings to diverse stakeholders.
- Experienced in database management with **MySQL** and **PostgreSQL**, ensuring data integrity and optimized performance.
- Knowledgeable in Big Data technologies such as **Hadoop** and **Spark** for processing and analyzing large-scale datasets.
- Proficient in **Natural Language Processing (NLP), Time Series Analysis, Predictive Analytics, A/B Testing, Prompt Engineering, Generative AI, Machine Learning, Deep Learning, Artificial Intelligence, and Exploratory Data Analysis (EDA)** to develop advanced data-driven solutions.
- Demonstrated ability to collaborate within multidisciplinary agile teams, ensuring seamless integration of data-driven insights into business strategies.

### Work Experience:

- Currently working as **AI/ML Computational Science Analyst in Accenture India**. From July 2022 to till date.

### Technical Expertise:

- **Programming Languages:** Python, R, SQL
- **Data Analysis Tools:** Pandas, NumPy, Scikit-learn, TensorFlow, PyTorch, SciPy
- **Frameworks:** Flask
- **Visualization Tools:** Tableau, Matplotlib, Seaborn,
- **Databases:** MySQL, PostgreSQL
- **Big Data Technologies:** Hadoop, Spark
- **Other Skills:** Natural Language Processing (NLP), Data science, Time Series Analysis, Predictive Analytics, Statistical analysis, Prompt engineering, Generative AI, Machine learning, Deep Learning, Artificial Intelligence, EDA, Predictive Modeling, Azure, AWS,

### Academic Qualification:

Year of passing	Degree	University/ Board	Institute/ School, City	CGPA/ %
Jun-2021	B.E (ECE)	VTU	KLEIT Hubli,Karnataka	73%
May-2018	Diploma(ECE)	Board of Technical Education	Women's Polytechnic Hubli, Karnataka	73%
Mar-2012	Class X: (SSLC)	Board of Secondary Education, Mumbai	Govt High School Hubli, Karnataka	89%

## Project Experience:

Project: 01	Accenture Current Project
Project Description	This project is Generic business search engines with capabilities to answer questions in multiple business domains using Generative AI (Open AI, GPT 4 and GPT 3.5 supported) and Retrieval-Augmented Generation (Augmented with business specific domain- specific data). Intelligent automatic selection of domain and dataset to fetch the relevant answer from.
Team	10
Period	January 2023 - Ongoing
Roles & Responsibilities	<ul style="list-style-type: none"><li>Developed an AI-driven search engine leveraging Generative AI (GPT-4, GPT-3.5) and Retrieval-Augmented Generation (RAG) for business-specific queries.</li><li>Applied Natural Language Processing (NLP) to enhance query understanding and response accuracy.</li><li>Designed prompt engineering strategies to refine search output and improve contextual accuracy.</li><li>Built interactive data visualizations with Tableau and Seaborn to analyze query trends and model performance.</li><li>Deployed the solution as a Flask API on Azure, ensuring scalability and efficiency.</li></ul>

Project: 02	Accenture Internal Project
Project Description	This project is Knowledge Graph Semantic search Engine using using the Sentence Transformer model to retrieve semantically relevant results from a database based on user search queries.
Team Size	8
Period	May-2022 – December 2023
Roles & Responsibilities	<ul style="list-style-type: none"><li>Engineered a semantic search engine using Sentence Transformers and lexical ranking techniques (Fuzzy-Wuzzy) for enhanced information retrieval.</li><li>Applied Machine Learning techniques to improve search result accuracy based on contextual relevance.</li><li>Ensured optimal database management with MySQL and PostgreSQL, improving data integrity and retrieval speed.</li><li>Packaged the solution into a Flask API and deployed it on Azure Virtual Machines and App Services.</li></ul>

## Achievements:

- Recipient of the Accenture Celebrates Excellence (ACE) award in the **Bright Beginners Award** category for Q2, FY23.
- ACE Inspiring Innovator Award** category for Q3, FY24

## Personal Details:

**Father's name** : Pooja Patil  
**Date of Birth** : 29/03/1999  
**Languages Known** : English, Hindi and Kannada  
**PAN** : GKSP6478P

## Declaration:

I hereby declare that the above information is correct to the best of my knowledge and I take complete responsibility for any false information.

**Place:** Bangalore

**Date:**

**Pooja Patil**