

Pramod Koujalagi

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EDUCATION

KLE INSTITUTE OF TECHNOLOGY

BE IN COMPUTER SCIENCE & ENGG
Aug 2019 - Jun 2023
Karnataka, India
CGPA - 8.62

S.D.M PRE-UNIVERSITY COLLEGE

CLASS XII
Grade - 80.5 Percent
June 2017 - April 2019
Karnataka, India
Class X Grade - 89.12 Percent

SKILLS

- Generative AI, Data Science
- Machine Learning/MLOps, NLP
- Prompt Engineering, ETL/ELT
- AWS Cloud, Google Cloud Platform
- Python, SQL, Java, Power BI
- C, C#, JavaScript
- Go, SDLC Agile
- Flask, HTML5, CSS3

Experienced with:

- Large Language Models (LLMs)
- RAG, FAISS, Pinecone
- OpenAI(GPTs), Hugging Face
- Claude, Meta Llama, Gemini
- Scikit-learn, ANN, RNN, CNN
- PyTorch, Tensorflow, Keras
- NLTK, CV, LangChain, Streamlit
- MongoDB, Docker, Flutter, React
- CI/CD, Node.js, Next.js, Tailwind
- Android Application Development

ACADEMIC SKILLS

- Data Structures and Algorithms
- Object Oriented Programming(OOP)
- Computer Networks
- Database Management System

TOOLS:

- Git/GitHub, MLFlow
- Jupyter Notebooks
- Google Colaboratory
- Postman, Eclipse
- Jira, Confluence, ClickUp
- Visual Studio Code
- Android Studio

EXPERIENCE

TEAMEPIC - PACKT PUBLISHING LTD.

DATA SCIENCE & AI ENGINEER
Mar 2024 - Aug 2024 · Full Time

- Led GenAI-based client projects, utilising cutting-edge **Large Language Models** alongside **data handling**, **architecting solutions**, **single-handedly building data and ML pipelines**, **Machine Learning & deep learning frameworks**, **data analytics**, **data visualization techniques**, **prompt engineering**, **quality assurance**, and **end-to-end project deployment skills**. Some of these clients were - **Kolate.AI**(Healthcare), **Identif.AI**(AI & Cybersecurity), **USDC Global**(EdTech) etc.
- Developed and deployed innovative AI solutions such as an **Automated Course Development Model** (achieving a **70-80% reduction in course development time**), **Data Analysis Chatbot**, **clinical trial prediction engine** for the Healthcare client developing a **GenAI chatbot with multiple functionality** includes: **RAG system with optimised vectorDB**, **Data Analyst for high end quantitative questions**, **Code Interpreter**, **AI based data visualisation tool**, the work also included **data cleaning and pre-processing**, **classical and advanced ML and deep learning techniques to predict outcomes of a clinical trial at different stages**.
- Applied advanced GenAI concepts and technologies, including **Retrieval Augmented Generation (RAG)**, **Vector Databases** (FAISS, Pinecone), and **Fine-tuning**, to enhance project outcomes.
- Enhanced my theoretical and hands-on expertise in **Data Science** during the training period by mastering **Data Analytics**, **Statistics**, **Machine Learning (MLOps)**, **Deep Learning**, and **NLP** (Natural Language Processing), and developing end-to-end projects like **Depression Detection Digital Assistant(Sentiment Analysis)** with **BERT models**.

REMOTEBASE | SOFTWARE ENGINEER - AI

Jan 2024 - Mar 2024

Worked on **medical imaging data** to discern and classify various objects, contributing to the development of accurate **datasets** for enhanced **analysis** and interpretation.

Skills: Data Analysis, Classification, Data Labeling, Annotation

CHEGG | MANAGED NETWORK EXPERT | FREELANCER

Sep 2023 - Dec 2024

Solved problems related to core Computer Science Engineering subjects.

Skills: Python, Java, C#, Networking, Algorithms, Matlab

COGNOVATIVE TECHNOLOGIES AND SOLUTIONS PVT. LTD.

PRODUCT DEVELOPEMENT INTERN

Feb 2023 - Apr 2023

- Designed and developed the UI for Bag Counter **Application** using **Flutter**.
 - Utilized Flutter and Dart to develop a user-friendly UI. Collaborated with the team to ensure seamless integration of UI components. Implemented Git for version control and followed SDLC Agile methodology(Scrum) for efficient project management.
- Skills: Flutter, Dart, Git, SDLC Agile, Debugging, Testing, Version Control**

NORTH WESTERN KARNATAKA ROAD TRANSPORT

CORPORATION(NWKRTC) | APPLICATION DEVELOPER INTERN

Sept 2022 - Oct 2022

Development of the Depot Computerization System(DCS) **Application** and **database** upgradation. Responsibilities included working on Entity-Relationship (ER) diagrams to model, structure database entities, relationships and comprehensive exploration of database structures to ensure efficient data management and retrieval.

Skills: SQL, Oracle reports, SDLC, Oracle Database, Debugging, Source Control

CERTIFICATIONS

- Generative AI and ChatGPT Masterclass for Software Engineers
- Machine Learning – Stanford University
- Machine Learning with Python – IBM
- Applied Machine Learning in Python
- Introduction to Deep Learning and Neural Network with Keras – IBM
- Prompt Engineering for Everyone with ChatGPT and GPT-4
- ChatGPT Prompt Engineering Mastery
- Smart Analytics, Machine Learning, and AI on Google Cloud
- Modernizing Data Lakes and Data Warehouses with Google Cloud
- Building Batch Data Pipelines on Google Cloud
- Building Resilient Streaming Analytics Systems on Google Cloud
- Google Cloud Big Data and Machine Learning Fundamentals
- AWS Academy Graduate - AWS Academy Cloud Foundations
- AWS Cloud Concepts - Tata Consultancy Services(TCS)
- Complete SQL Bootcamp
- Certified Agile Associate
- Git, Github and Markdown Certification
- Accenture Developer Virtual Experience Program
- Docker Basics
- Advanced Java Certification Course
- Java Certification Course
- Fundamentals of Network Security
- Web3 Development Essentials
- C#: Basics to Professional Level Coding
- HIPAA for Business Associates

PROJECTS

AUTOMATED COURSE DEVELOPMENT (ACD) (PYTHON, STREAMLIT, OPENAI'S GPT-3.5 TURBO/4 TURBO, META'S LLAMA-3-70B-INSTRUCT, PROMPT ENGINEERING, GITHUB, VS-CODE)

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- Developed AI-driven solution on **Streamlit**, generating comprehensive course content from minimal **achieving a 70-80% reduction in course development time**.
- Applied **Bloom's Taxonomy** to enhance educational quality, focusing on knowledge, comprehension, application, analysis, synthesis, and evaluation.
- Optimized backend architecture, crafted LLM prompts for optimal output, and created user-friendly frontend interface, and LaTeX for PDF formatting. Enabled users to download course materials in PDF and PPT formats, providing flexible access to generated content.

ERUDITE - MULTIPDF CHATBOT (STREAMLIT, LANGCHAIN, LARGE LANGUAGE MODELS[OPENAI, CHATGROQ], FAISS, HUGGING FACE, GIT)

🔗 --> [LINK](#)

- Developed a multi-PDF chatbot using Python and Streamlit, integrating OpenAI's language models to process and analyze up to **20 PDF documents simultaneously**, resulting in a **95% reduction in manual document review time**.
- Utilized **Hugging Face's transformer models**, and **FAISS** for efficient document embedding, semantic search, and scalable similarity search. Automatically **suggests questions and provides recommendations** based on user queries.

AI NEWS COMPANION (LARGE LANGUAGE MODELS[GPT-3.5 TURBO], PROMPT ENGINEERING, PYTHON, STREAMLIT, APIS, GIT)

🔗 --> [LINK](#)

- Developed Newzy, an AI news agent using **Large Language Models (LLMs)**, Beautiful Soup, curating and summarizing relevant news articles for personalized user experiences.
- Built a user-friendly Streamlit interface, **increasing readability by 40% and enabling seamless navigation and tailored news insights**.

DEPRESSION DETECTION DIGITAL ASSISTANT (PYTHON, HUGGING FACE'S ROBERTA-BASE, TRANSFORMERS, PYTORCH)

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- Developed an automated system to detect signs of depression from digital data/text using the **Hugging Face's roBERTa-base model** from the transformers library in Python, achieving a 89.18% accuracy.
- Deployed the model in a Flask-based application for real-time analysis. **Model: Hugging Face's roBERTa-base**

SONG POPULARITY PREDICTION (SCIKIT-LEARN, RANDOM FOREST, XGBOOST, PYTHON, COLAB)

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- Developed a machine learning model to predict yearly song streams using dataset attributes. Data Exploration and Preprocessing, **Exploratory Data Analysis (EDA)**, Feature Engineering, Model Building and Evaluation.
- **Models: RandomForestRegressor, XGBRegressor**