Dr. Pragati Hiwarkar

Data Science Professional

Profile Summary

Mentor IT for DataScience , AI-ML & Cloud courses

PhD in Business Administration & Management.

MBA (IT) / MCM, MCA, MTech (IT)

15 years in Teaching and Software Development

Skills

Programming languages : Python , MySQL, Java, C.

Gen-AI/LLM : Prompt Engineering , LLM , LlamaIndex

Deep Learning : ANN, CNN, Perceptron, RNN

Natural Language Processing : Word2Vec, NLTK, TFIDF, LSTM

Machine Learning Frameworks : NumPy, SciPy, Scikit-learn, Pandas, TensorFlow, PyTorch, Keras

Visualization : Matplotlib, Seaborn , Power BI , Tableau, Excel etc.

Cloud platforms : AWS, Google Cloud Platform

Databases : MongoDB, MySQL, Amazon S3

Development environments : Jupyter Notebook, PyCharm, Visual Studio Code, Flask

Other tools : Git, GitHub , Postman etc.

Education Background

Ph.D. RTM Nagpur University, 2017.

MCM (MBA IT) First Class (62%)
INDSEARCH, Pune University Pune,

MCA Punjab Technical University, 2013.

M. Tech (IT) KSOU University Mysore, 2011.

BSc. First Class (74.66%)
Mahatma Phule College Warud, Amravati

Research & Publication

- Chapter published in **SCOPUS INDEXED Book** : AI centric modeling and analytics .

- Chapter published in **SCOPUS & SCA Journal**

- **10+ research papers presented** in International / National conferences.

- Total **9 papers published**

Project Work

- **GenAI:**

- Developed "Helpmate AI" a Robust Generative Search System Capable of effectively and accurately answering questions from a policy document

- It helped minimizing response time for customer queries and answering them in realtime about their queries on policy details and keep them engage

- implemented the Retrieval Augmented Generation(RAG) system to create a generative search application for performing question answering on PDF documents from the insurance domain.

- **GenAI & Deep Learning:**

- Developed a convolutional neural network (CNN) for automated brain tumor detection from MRI scans to assist in clinical diagnostics.

- Designed a CNN architecture tailored for image classification, integrating convolutional layers for feature extraction and fully connected layers for classification.

- Achieved significant accuracy in tumor classification, aiding in informed decision-making for treatment plans.

Project Work

- **NLP : Text Summarization:**

- Developed robust preprocessing pipelines for literary data to ensure compatibility with Transformer-based models.

- Integrated trained models into production for scalable and efficient real-time text summarization, collaborating with engineering teams to optimize performance.

- Contributed to research initiatives exploring advancements in Transformer-based frameworks, leading to novel methods and strategies for text summarization.

Experience Summary

IT Mentor / Senior IT Faculty
Worked as mentor and teaching faculty for specialized courses of "iNurture Education Solution Pvt Ltd" for
- Ajeenkya D Y Patil University, Pune
- Nagindas Khandwala College , Mumbai
- Tilak Maharashtra University, Pune

Courses: AI-ML , DataScience , Cloud Technology Cyber Security etc.

Teaching experience in Python, NLP, DBMS, Flask ,Django etc.

 - May 2016 to Nov 2017 & Dec 2020 to Feb 2024
~ 4 Years

Assistant Professor
B.P.H.E. Society's Institute of Management Studies, Ahmednagar

Worked as Assistant professor for MCA and MCM.

Covered subjects like Java , Android , SQL , DBMS , Software Engineering , UML , C , C++ , ASP.Net etc.

-July 2008 to April 2016
~8 Years

Freelancing Project Work
Software Development : Developed Android app

Python Training : Conducted online lectures for Python

- Dec 2017 to Dec 2020

Achievements

- Mutiple appreciations for Mentorship Role

- Appreciation Certificate for outstanding contribution as a Faculty Coordinator.

- Winner of Intercollegiate seminar competition during graduation.

- Top Ranker in Graduation.

How to reach me

LinkedIn:
https://www.linkedin.com/in/dr-pragati-hiwarkar/

Personal Details

D.O.B.   : 7th July 1985

Blood Group   : O +ve

Languages   : English , Marathi , Hindi.

Contact Details

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