

SHRIPRASAD KHARPE

Postgraduate in Big Data Analytics

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Profile

Postgraduate in Big Data Analytics with hands-on experience in **Python, SQL** and **Spark**, specializing in data preprocessing, **machine learning**, **generative ai** model development, and dashboard creation using **Power BI**. Proficient in **AWS** and other analytics tools, with a solid grasp of handling structured and semi-structured data formats such as CSV and JSON.

Education

Centre of development for advance computing	Mumbai-410210
Postgraduate in Big Data Analytics	08/2024 - 02/2025
SPPU University, Sinhgad College of Engineering	Pune-411041
Bachelor of engineering	07/2020 - 07/2024

Professional Training Experience

Centre for Development of Advanced Computing (CDAC)	Mumbai
Data Science Trainee	Aug 2024 – Feb 2025

CDAC is the premier R&D institution under MeitY, Govt. of India, specializing in advanced computing and emerging technologies.

- Completed hands-on training in Big Data Analytics with focus on machine learning, data engineering, and cloud deployment.
- Built predictive models using Python, TensorFlow, and PyTorch for healthcare and financial use cases.
- Processed large datasets using Apache Spark, Hive, and Hadoop; performed EDA and feature engineering.
- Developed dashboards with Power BI and Tableau to visualize insights.
- Deployed end-to-end solutions on AWS and Azure platforms.

Projects

Brain Tumor Detection and Classification System	01/2025 - 02/2025
<ul style="list-style-type: none">Developed a CNN-based tumor detection model that achieved 67% accuracy, supporting faster diagnosis and aiding doctors in decision-making.Built a responsive web interface using Flask, HTML, and CSS for MRI scan input and result displayIntegrated OpenAI for generating insights like symptoms, possible causes, and recommended actions based on predictionsDeployed on AWS to enable scalable, real-time access.	

Ollama-Powered Chatbot Platform (FastAPI & Streamlit)	05/2025 - 05/2025
<p>A full-stack chatbot platform for generative AI using modern web technologies</p> <ul style="list-style-type: none">Developed a full-stack Generative AI chatbot using Streamlit (frontend) and FastAPI (backend) for conversational AI with local LLMs (Mistral via Ollama).Engineered a RESTful API with FastAPI and LangServe to expose LangChain runnables, facilitating modular and scalable LLM inferenceImplemented robust client-server communication between Streamlit and FastAPI via requests, including comprehensive error handling	

SBIN Stock Data Analysis	12/2024 - 01/2025
<ul style="list-style-type: none">Analyzed SBIN stock trends to identify short-term trading opportunities using Spark RDD, Python (Pandas, NumPy, Matplotlib), and StreamlitAssessed market sentiment and highlighted trade signals, providing actionable insights via GitHubThe solution addresses the need for real-time stock analysis, helping traders capitalize on market movements and improve trading strategies	

Programming Languages: Python, SQL
Machine Learning & Deep Learning: Scikit-learn, TensorFlow, PyTorch, Keras, Convolutional Neural Networks (CNNs)
Natural Language Processing (NLP) & LLMs: Text Preprocessing, Tokenization, Transformer Models
Big Data Technologies: Hadoop, Apache Spark, Apache Hive, Big Data Analytics
Cloud Platforms & Services: AWS (EC2, S3, IAM, Lambda, Redshift, SageMaker, VPC), Microsoft Azure
Data Visualization & BI Tools: Tableau, Microsoft Power BI, Matplotlib, Seaborn
Databases: MySQL, MongoDB
Data Science & Statistical Analysis: Hypothesis Testing, Regression Analysis, Statistical Modeling
Data Manipulation & Scientific Computing: NumPy, Pandas
Operating Systems: Linux