Sagar Parab

Contact

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Skills

- AI / DATA SCIENCE:
  Python, Pandas,
  NumPy, Scikit-learn,
  TensorFlow, Keras,
  PyTorch, BERT,
  Hugging Face
  Transformers, LSTM,
  CNN, RNN, Prompt
  Engineering,
  LangChain, Agents,
  RAG, Flask, Streamlit,
  Docker, AWS (ECR,
  ECS)

- DATA ANALYTICS & BI
  TOOLS: MS Excel
  (Advanced), VBA
  Macros, Power BI,
  Tableau, Power
  Query, Power
  Automate, SSRS, SSIS,
  SQL

- MLOps &
  DEPLOYMENT:
  Docker, Flask,

Dynamic and results-driven professional with 14+ years of experience in analytics, automation, and reporting, now strategically transitioning into the AI and Data Science industry. Successfully completing a rigorous AI/Data Science & Generative AI program at Scaler Academy (July 2025), with comprehensive hands-on experience in machine learning, deep learning, and Gen-AI model deployment. Proven track record of delivering significant business impact using advanced Excel, VBA, Power BI, and Power Query. Eager to contribute to innovative, AI-driven solutions in a forward-thinking organization.

PROFESSIONAL EXPERIENCE

2022-03 - 2024-09

Senior Analyst

Accenture Services

- Designed and built comprehensive dashboards in Power BI, providing critical business insights.
- Developed automated Excel reports using VBA & Power Query, significantly enhancing reporting efficiency.
- Delivered impactful analytics and presentations to senior stakeholders, influencing data-driven decisions.
- Partnered effectively with stakeholders for SLA/KPI tracking and improvements, ensuring operational excellence.
- Standardized and streamlined reporting processes with a strong focus on data integrity and accuracy.

2014-06 - 2021-12

Senior Analyst

Willis Towers Watson

- Led reporting and dashboarding initiatives utilizing SQL, Power BI, and Excel VBA.
- Automated numerous manual reporting processes, resulting in an estimated 30% time savings.
- Collaborated cross-functionally to drive significant reporting enhancements and system improvements.

2009-08 - 2014-05

Team Coordinator

Bank of America

- Designed and implemented productivity and quality reports for home loan operations.
- Led VBA (crawling scripts) automation initiatives to improve operational efficiency and data collection.
- Trained and managed new team members across 5+ loan processes, ensuring high performance.

Streamlit, Git, AWS,
REST APIs, ECR, ECS,
Model Deployment

- SOFT SKILLS:
  Stakeholder
  Communication,
  Team Leadership,
  Analytical Thinking,
  Process Optimization,
  Project Ownership

LANGUAGES

English

Marathi

Hindi

Websites, Portfolios, Profiles

- https://www.linkedin.com/in/sagar-parab-23290a1a8/

EDUCATION

2011-04	**M.Com** from *University of Mumbai*
2008-03	**B.Com** from *University of Mumbai*

PROJECT EXPERIENCE

Gen AI – AgenticAI_Research_Tool_Project

Ideating| Resource_Collection| Streamlit

- AI-powered companion for research assistance using YouTube Search, Semantic Scholar, and Playwright.
- Ideating page for expanding ideas and identifying research gaps.
- Research Collection page to gather and organize academic materials.

Gen AI - Open AI_Project

grammar_fun| reading_translation | image_comprehension | Streamlit

- Developed an interactive AI-powered English learning platform using Streamlit and OpenAI APIs.
- Integrated grammar quizzes, image-based speaking tasks with speech-to-text via Whisper, and Hindi-to-English translation evaluation.
- Enabled real-time feedback through GPT models and voice input using SoundDevice, enhancing user engagement through multimodal language practice.

Sentiment Analysis & Translation App

BERT + MarianMT | Transformers | Flask | GPU Deployment

- Developed and trained a BERT-based model on the Amazon Polarity dataset for highly accurate sentiment classification.
- Integrated MarianMT for English-to-Hindi translation, demonstrating proficiency in NLP and language models.
- Designed and implemented a user-friendly Streamlit frontend to display text, translation, and sentiment output.

Spam Detection using BERT

Deep Learning | Hugging Face | Flask

- Fine-tuned a 'bert-base-uncased' model for robust spam classification, achieving a 96% F1-score on the validation set.
- Deployed the model as a scalable web application using Flask, showcasing end-to-end model deployment capabilities.

Time Prediction Portal App

Neural Networks | Flask | Target Encoding

- Built a time prediction model using a custom neural network architecture.
- Applied Mean Squared Error (MSE) as the loss function and incorporated target encoding for improved model performance.
- Deployed the predictive model via Flask, ensuring accessibility and usability.

Insurance Cost Prediction

ML Models: GBDT, XGBoost, Linear, KNN | EDA | Flask App

- Achieved 91% accuracy using a Gradient Boosting Decision Tree (GBDT) model for insurance cost prediction.
- Conducted extensive feature engineering, outlier removal, and hypothesis testing to optimize data quality and model inputs.
- Developed and deployed a Flask web application for interactive predictions.

Product Sales Forecasting

Stacked Models | Flask | Docker | Time Series (SARIMAX)

- Developed hybrid stacked models for product sales forecasting, achieving 96% accuracy.
- Utilized SARIMAX for time series analysis, demonstrating expertise in advanced forecasting techniques.
- Deployed the application using Flask and Docker for scalable and efficient access.

WEBSITES, PORTFOLIOS, PROFILES

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