

Shivang Talati

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CAREER OBJECTIVE

Driven data scientist with a strong foundation in machine learning, deep learning, artificial intelligence, and computer vision, combined with hands-on experience in product management and data analysis. Proficient in data exploration, statistical analysis, predictive modelling, and data visualization. Passionate about leveraging analytical and business skills to solve complex problems, optimize performance, and drive innovation within dynamic, growth-oriented teams. Skilled in leadership, problem-solving, and decision-making, with a commitment to continuous learning and professional excellence.

Work Experience:

Product and Operations Executive | Zell Education Pvt.Ltd, Mumbai

June 2022 – March 2024

- End-to-end academic delivery management with a focus on leveraging data to improve user experience.
- Data Management & Reporting: Optimized LMS data flow for accurate tracking of course progress, engagement, and performance, and implemented automated reporting.
- Data-Driven Insights: Collaborated with teams to analyze feedback and performance, driving improvements in course content and delivery methods.
- UI/UX Optimization: Worked with design and tech teams to enhance LMS UI/UX
- Process Automation: Streamlined processes to reduce response time for student escalations.
- Student Performance Analysis: Used data analytics tools to track student engagement, personalizing their learning experiences.

Recruitment Associate | Stalwart Management Consulting, Mumbai

November 2021 – January 2022

Marketing Analyst | Aura Perfumes and Cosmetics L.L.C, Dubai

November 2020 – June 2021

Skills:

- **Data Preprocessing:** Cleaning, correlation analysis, imputation, feature scaling, dimensionality reduction (PCA).
- **Machine Learning:** Predictive modeling (supervised & unsupervised), clustering, segmentation, ensemble methods, model evaluation, time series forecasting.
- **Machine Learning Algorithms:** Linear Regression, Logistic Regression, Decision Tree, Random Forest, Bagging, AdaBoost, Gradient Boost, XG-Boost, K-Means Clustering, Hierarchical Clustering.
- **Model Optimization:** Hyperparameter tuning (Grid Search, Randomized Search).
- **Statistical Analysis:** Hypothesis testing, Z-tests, T-tests, ANOVA, Chi-square.
- **Programming & Tools:** Python (Scikit-Learn, Pandas, NumPy, etc.), SQL, PyCharm.
- **Data Visualization:** Power BI, Tableau.
- **NLP & Artificial Intelligence:** Natural Language Processing (NLP), Large Language Models (LLMs), Artificial Intelligence (AI), OCR (Optical Character Recognition), text mining, word embedding, vectorization.
- **Deep Learning:** Artificial Neural Networks (ANN), Convolutional Neural Networks (CNN), Recurrent Neural Networks (RNN), LSTM, TensorFlow, Keras, Hugging Face, cost and loss function optimization.
- **Cloud Deployment:** AWS Basics.
- **Interpersonal Skills:** Analytical Thinking, Problem-Solving, Critical Thinking, Collaboration, Effective Communication, Attention to Detail, Adaptability, Stakeholder Engagement.

Personal Projects

“Global Nuclear Capabilities: A Resource for Indian Defence Planning”

Objective of this capstone project is to visualize global nuclear capabilities in Power BI, providing strategic insights.

- Developed an interactive Power BI dashboard to visualize global nuclear capabilities, focusing on India's defence strategy.
- Used DAX formulas and calculated columns to derive insights like nuclear weapon density and proximity, aiding defence decision-making.
- Applied geospatial analysis to visualize nuclear arsenal distributions and assess their strategic impact on India.
- Provided data-driven insights that informed strategic recommendations for India's defence planning through clear visualizations and custom metrics.

“Pathfinder- Your AI Career Assistant : Career Recommendation System”

The main objective of this capstone project is to provide users with personalized guidance for their career path. The application serves as a one-stop solution for addressing all career-related queries to help users make informed decisions about their future.

- Developed a **career recommendation system** using real-time data from the Gemini API, offering personalized career suggestions based on user skills and preferences.
- Designed an interactive user interface with Streamlit to capture user data, allowing for tailored career recommendations.
- Processed real-time data to align user profiles with industry trends, generating recommendations using logic in VS Studio.
- The key features are:
 - Implemented **skill gap analysis** to help users identify the missing skills required for their desired career path, potentially **increasing their employability by 30-40%**.
 - Built a **career roadmap** to guide users step-by-step, **reducing decision-making time by 25%**.
 - Created a **career path simulator** for users to visualize career growth based on their profile.
 - Integrated **nearby opportunities** to recommend jobs, courses, workshops, and internships tailored to the user's career interests and location.
- Enabled data-driven decision-making, empowering users to make informed career choices with comprehensive insights on career development.

“Interview Intelligence System”

Developed an Interview Intelligence System utilizing machine learning to analyze datasets of interview responses, with a focus on candidate attributes and interview dynamics.

- Developed an Interview Intelligence System using machine learning to analyze interview datasets, focusing on candidate attributes and interview dynamics.
- Identified patterns in successful interviews to help businesses refine their selection processes. And applied data preprocessing techniques like upsampling, downsampling, and SMOTE to balance data and enhance model performance.
- Utilized predictive modeling to provide actionable insights, optimizing interview outcomes and ensuring best practices.

Education

Post Graduate Program in Data Analytics and Machine Learning

Jan 2025

- Imarticus Learning, Mumbai

Bachelors in Management Studies (Finance)

2017-2020

- KES Shroff College, Mumbai (Final Year CGPA 7.55)

Achievements

Data Science Hackathon [2nd Rank] – Nov 2024

Secured 2nd rank in the Analytics Hackathon hosted by Imarticus Learning in partnership with SKILLENZA. Developed a predictive model for Accident Severity Analysis, classifying road accident severity based on factors such as weather conditions, road type, vehicle involvement, and pedestrian activity. Applied various machine learning algorithms to provide insights that can aid authorities in improving traffic safety measures.

Beyond & Above Contribution Award – Zell'23

Awarded for exceptional performance and contributions beyond expectations at Zell Education Pvt.Ltd.

PERSONAL INFORMATION

Date of birth: 27/08/1999

Languages: English (R/W/S), Gujarati (R/W/S), Hindi (R/W/S)

Hobbies: Gallivant, badminton & exploring new AI tools.

REFERENCES:

Ms. Nikita Tandel – Analytics Faculty Head at Imarticus Learning Pvt.Ltd

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