Mohit Choithwani

Associate Data Scientist

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- in LinkedIn
- 🌐 Portfolio
- GitHub

About Me ———

AI enthusiast and data-oriented professional with over 5 years of experience in cloud-based CRM analytics and solution architecture, aiming to deliver impactful business outcomes by integrating AI-driven strategies into operational workflows.

Technical Skills ———

Languages:

• Python • SQL • Java • JavaScript

Databases and Data Warehouse:

• Oracle • Postgres • MongoDB
• Azure SQL

ML tools and frameworks:

• PyTorch • TensorFlow • TensorBoard
• OpenCV

Python Libraries:

• Numpy • Pandas • Matplotlib
• Seaborn • Scikit-Learn

ML Techniques:

• Supervsied & Unsupervised learning
• Predictive Analysis • MLOps
• LLMs • NLP • Anomaly Detection

Work Experience

Feb 2023 - Nov 2024

BROSE — Salesforce Solution Architect (Werkstudent)
Berlin, Germany

• Communicated with 5+ stakeholders and product owners to understand the business vision and to recommend the optimal solutions, maintaining industry best practices.

• Implemented a prototype of an autoencoder-based model optimized for detecting anomalies in e-bike sensor data, achieving an F1-score of 87.6%.

• Automated repetitive processes and manual tasks with flows, which led to a substantial reduction in operation expenses of $\sim$ 2000 euros per user annually.

• Managed data modeling, data management workflows and data governance to maintain data integrity and consistency.

May 2022 - March 2023

UNIVERSITY OF ERLANGEN — ML Research Assistant
Erlangen, Germany

• Worked on a research project, **"PoseBias"**, with the goal of determining the optimal camera position for facial analysis tasks in cars.

• Implemented and fine-tuned DL models in PyTorch, achieving an accuracy of 94.6% in face recognition and an nRMS of 3.2% in landmark detection.

• Built a robust ETL pipeline using Apache Spark to handle the large-scale dataset from an open-source tool.

• Published and presented research findings at the prestigious ICCV 2023 conference. 📖

Jan 2021 - Oct 2021

ACCENTURE — Senior Salesforce CPQ Developer
Mumbai, India

• Designed end-to-end CPQ solutions in Salesforce, transforming complex business requirements into effective solutions.

• Created strategic plans, technical documents, and disaster recovery plans in Confluences.

• Implemented Einstein Product Recommendations, which dynamically recommends relevant products based on customer behaviour.

• Managed production deployment using Jenkins and Copado to handle CI/CD pipelines and version control systems in an agile environment.

Oct 2018 - Jan 2021

ACCENTURE — Associate Salesforce Developer
Mumbai, India

• Built interactive CRM dashboards with KPIs and custom filters to provide real-time insights into customer quotes.

• Skilled in writing efficient SQL queries for large datasets and provided support for quality assurance processes.

• Performed mass data migrations across sandboxes and production environments using Data Loader and Workbench.

• Developed efficient triggers, batch jobs, and schedulers to optimize system workflows.

• Recognition: Received an ACE award for creatively and effectively solving complex challenges in client delivery.

Data Engineering:

• Apache Spark • PySpark
• SparkSQL • Databricks

Generative AI:

• BERT • GPT • Transformer • Gemini

Others:

• Docker • Power BI • Tableau
• Git • GitLab • REST & SOAP API
• AWS • GCP

Certifications

❋ Generative AI – Databricks

❋ ML in Production – Coursera

❋ 6x Salesforce Certified (Trailblazer)

❋ Completed 10+ DataCamp Courses
(View)

References

👤 Raman Iyer

💼 Senior Manager

🏢 Accenture, India

✉ raman.p.iyer@accenture.com .com

👤 Alejandro Fonseca

💼 Salesforce Team Lead

🏢 Brose, Germany

✉ alejandro.fonseca@brose.com

Education

| Oct 2021 - Present | **UNIVERSITY OF ERLANGEN** | **Germany** |

M.Sc. in Data Science, majors in AI & ML
Master's Thesis:

- **Goal**: Determine an ideal number of input images for accurate 3D reconstruction of Human heads.
- Researched and benchmarked nine SOTA multiview 3D reconstruction methods, analyzing their strengths and limitations.
- Refined model robustness and improved real-time rendering performance by fine-tuning model architectures.
- **Skills**: Computer Vision, 3D Deep Learning, 3D Reconstruction, PyTorch, Docker, GenAI, Photogrammetry.

Projects

Nov 2024 - Dec 2024

SeaBreeze Analytics   (Personal)

Real-time data pipeline for analyzing sensor data. 🔘

- **Goal**: Develop a scalable data pipeline for ingesting, validating, and transforming sensor data from beach stations.
- Built a robust ETL process to analyze time-series data and insert it into a PostgreSQL.
- Integrated error handling, logging mechanism and system monitoring tools like Watchdog for fault tolerance.
- Optimized database storage through normalization and fast retrieval with indexing.
- **Skills**: Python, Data Engineering, Time-Series Analysis, System Design.

May 2022 - Oct 2022

Get Fit with PCA   (Academic)

AI-driven Fitness App. 🔘

- **Goal**: Develop an AI-powered fitness app to evaluate fitness performance from videos.
- Implemented statistical methods (PCA) for dimensionality reduction and performance evaluation.
- Integrated MediaPipe library for landmark detection.
- Developed a user-friendly interface with Flask and actionable data visualization.
- **Skills**: Statistical Modeling, Unsupervised Learning, Exploratory Data Analysis, Plotly.

Publications

- Published and presented a paper titled "PoseBias" as the first author at the ICCV 2023 Conference held in Paris. 📖
- Authored a technical paper titled "Home Automation Using Panoramic Image and IoT," published in the IEEE Journal in 2018. 📖