



Hrithik Rai Saxena

Full Stack Data Scientist

✉ hrsaxena97@gmail.com ☎ +49-15172456126 📍 Wuppertal, Germany 🔗 Portfolio Website 🌐 LinkedIn

🗣 Blogs 🐙 Github 🇮🇳 Indian

Profile

I am a Full stack Data scientist with over 4 years of immersive industrial experience. From taking an idea from the proof of concept until production, with holistic collaboration followed by utmost dedication and unwavering commitment to deliver the best product possible under the given resources and time, I find joy in delivering satisfaction.

Professional Experience

Master Thesis Student/ Data Science Intern,

08/2023 – present | Düsseldorf, Germany

Livello Technologies 📄

- Developed an end-to-end Revenue and Product demand forecasting system with a novel 'storage-oriented' architecture, thus bringing down the average response time from 8 seconds to 3.5 seconds.
- Introduced efficient data migration strategies (MongoDB, BigQuery), cutting monthly bills by 42%.
- Introduced exogenous variables and dynamic model parametrization components, bringing down the MAPE from 63% to 27%.
- Implemented a 'data-drift based' model retraining strategy, eliminating the human in the loop.
- Implemented loggers, test cases and memory profilers for better system diagnostics and monitoring.
- Efficient query optimization and caching for better payload handling.
- Configured CI/CD pipeline – Docker Image build, Test, Security Check, Cloud Run, Deploy, Migrate.
- Setting up API service and configuring Nvidia Jetson Nano for the Google's 'Mediapipe' library for people counting, age and gender detection service. Created a real time dashboard for the same using Dash.

Artificial Intelligence Intern, Syskron GmbH (Krones) 📄

10/2022 – 03/2023 | Regensburg, Germany

- Formulated strategies for model retraining of the environment model of the company's benchmark Reinforcement Learning based product – ContiloopAI.
- Updated the previous data pipeline to feature engineer raw factory data coming from an end device(ReadyKit) via Share2Act. This helped us to save on-site manual data acquisition and field trips.
- Developed strategies for model retraining via different kind of performance based and time based triggers.
- Documented training articles on reinforcement learning and model retraining and monitoring for the AI team.

Data Scientist/ Data Analyst,

09/2018 – 07/2021 | Bhopal, India

SCMP, Government of Madhya Pradesh, Bhopal, India

- Developed end-to-end machine learning prototypes and scaled them to run in a production environment.
- Created a SVM based classifier system with 92% accuracy to assign ration cards to different consumer based on their income. This reduced the request processing time for a consumer by 60%
- Derived actionable insights from massive data obtained from 52 districts of the state to facilitate better policy making decisions.

- Analyzed old information architectures and contributed to the design and development of new ones.
- Created easy-to-understand visual dashboards projecting growth and giving insights to facilitate the proper execution of government schemes.
- Created a chatbot using IBM Watson for quick redressal of urban consumer grievances.

Education

Master of Science - Artificial Intelligence and Data Science,
 Deggendorf Institute of Technology, Germany/ University of South
 Bohemia, Czech Republic [🔗](#)
 Grade: 1.8

10/2021 – 03/2024
 Deggendorf, Budweis, Germany, Czech Republic

Bachelor of Engineering - Information Technology,
 University Institute of Technology, RGPV
 Grade: First class distinction.

06/2015 – 05/2019 | Bhopal, India

Skills

Programming Languages (Python, R, C, C++, JavaScript, SQL, HTML & CSS) • **Data Science** (Descriptive analysis, Exploratory Data analysis, Predictive analysis, Prescriptive analysis, Diagnostic analysis, Inferential analysis, Regression and Factor analysis) • **Machine Learning** (Supervised and unsupervised learning, Deep learning, Reinforcement learning, Transformer based models, Streaming based, Continual Learning, Generative models) • **Database Management** (SQL (PostGres, MySQL), NoSQL(MongoDB), Data migration pipelines, Data Modeling, Data Warehousing and ETL Processes) • **Data Engineering** (Apache Spark, Power BI, AWS S3, Glue, Kinesis, MongoDB, BigQuery, Data Warehouse (Amazon Redshift)) • **MLOps** (Version Control(Git), MLFlow, YAML for MLOps configuration and deployment, Docker, GitLab CI - CI/CD Pipelines and DevOps, Continuous monitoring for MLOps (Grafana) and Retraining(event/trigger based - WhyLogs), System diagnostics and testing, Deployment(Heroku, Google Cloud Run))

- **Cloud Computing** (AWS, Google Cloud)
- **Software Engineering** (Procedural Programming, Object Oriented Programming, System Architecture Design and Optimization, Unit testing, Logging, Debugging, AGILE oriented development, Jira ticketing, Confluence Documentation, SRS and PRD, Parallel Programming frameworks, Asynchronous calling frameworks, caching)

Projects

Project Portfolio, *Please refer this link to view projects* [🔗](#)

Certificates

Certificates [🔗](#)

Please refer this link to view certifications

Awards

Top Star Performer, *Associated with Livello Technologies*

01/2024

I was recognized as the top performer in recognition of my unwavering devotion and commitment to surpassing objectives. My firm belief that I should hold my work to a high standard, helped me earn this award.

References

Dr. Markus Zölfl - Innovation Manager AI at SYSKRON, *markus.zolfl@syskron.com,+49-15161427437*

Mr. Mohaseen Patel - Director at Livello, *m.patel@livello.com*