

ASHISH SONI

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[LinkedIn](#) | [GitHub](#) | [Hugging Face](#)

TECHNICAL SKILLS

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|----------------------|-------------------------------|
| ▪ Python | ▪ SQL/NoSQL Databases |
| ▪ Spark | ▪ Vector Databases |
| ▪ Microsoft Power BI | ▪ Natural Language Processing |
| ▪ R | ▪ Computer Vision |
| ▪ Microsoft Excel | ▪ AWS, GCP |
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PROJECTS

Disease Detection in Bean Plants using Computer Vision

- Trained a deep learning model to identify healthy and diseased bean plant leaves and developed a plant disease detection Gradio application, reducing manual leaf monitoring efforts for farmers.

Inventory Optimization and Resource Management for a Joinery

- Developed a data-driven model to calculate daily raw material requirements, reducing storage costs and minimizing waste.
- Implemented a daily reporting system for precise material orders, ensuring just-in-time arrivals for production needs using BigQuery.

Facial Identity Recognition Application with Image Embeddings

- Compared the performance of 3 pretrained image embeddings models.
- Developed a Gradio application for enabling accurate facial identity recognition in real-world scenarios.

Quora Duplicate Question Detection with Embedding-Based Retrieval

- Developed a system using embedding based retrieval methods, including Word Vectors, BERT, Sentence BERT and Cohere Sentence Embeddings to enhance accuracy and efficiency.
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WORK EXPERIENCE

Intern Data Scientist at Deutsche Telekom, Bonn **Sep.2021 - Feb.2022**

- Implementation of a recommendation engine prototype for Deutsche Telekom's B2B cloud product offerings.
- Development of Data Pipelines in PySpark and analysis of Data related to B2B Customers.

Research Intern at Chitkara University, India **Jan.2017 - Jul.2017**

- Analyzed the synergy between cloud computing and big data analytics in the paper "Cloud with Big Data Analytics: A Review".
- Used data mining techniques to identify relevant predictors of heart disease.

EDUCATION

M.Sc. In Data and Knowledge Engineering **Apr.2018 - Mar.2023**

Otto von Guericke University, Magdeburg

- **Master Thesis:** Optimization of the search experience in search engines with Vector Databases and Transfer Learning.

Master in Computer Applications **2015 – 2017**

Chitkara University, India

Bachelor in Computer Applications **2011 – 2014**

Panjab University, India

CERTIFICATIONS

From Data to Insights with Google Cloud Specialization **Coursera, 2023**

ML Engineer Track **Uplimit, 2022**

LANGUAGES

- **Proficient:** English
- **Beginner:** Deutsch