Aniket Satpute

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ABOUT ME

Driven by a passion for technology and innovation, I have transitioned from a mechanical engineering background to a thriving career in data analytics and data science. My experience includes working with diverse teams to implement machine learning models and data-driven strategies that drives efficiency and growth. I am committed to continuous learning and staying at the forefront of data science and analytics.

WORK EXPERIENCE

Internship & Master Thesis – Global Biostatistics and Data Science | Boehringer Ingelheim

Biberach an der Riß, Germany   *September 2023 – Current*

- Developed a Retrieval-Augmented Generation (RAG) application to extract vital information from unstructured documents using large language models (LLMs).
- Designed a front-end interface that processes documents and displays key information, significantly reducing review time from 30 minutes to 5 minutes.
- Conducted extensive testing and evaluation of the RAG model to enhance its accuracy and reliability.

Associate Data Analytics | Think360.ai

Mumbai, India   *May 2021 – July 2022*

- Cleaned and deduplicated data using Python and Pandas
- Visualized course demand trends using Tableau and Power BI
- Improved data quality and accuracy by 85%
- Created and automated over 50 financial reports using MS SQL, Oracle SQL, and R
- Detected and reported a commission loophole that saved the company thousands of dollars.

Graduate Apprentice – Project Management | Bosch Chassis Systems Pvt. Ltd.

Pune, India   *October 2019 – October 2020*

- Monitored and reported on the progress and performance of multiple projects using quality gates framework and best practices.
- Served as a Covid Marshal to ensure the health and safety of the employees and customers by enforcing Covid-19 protocols and guidelines.

Intern | JCB India Pvt. Ltd.

Pune, India   *March 2018 – December 2018*

- Collaborated on the launch of CT 160 and CT 260 loaders with the New Product Development team, demonstrating teamwork and project management.
- Created a Bill of Materials with 1,000+ parts and Standard Operating Procedures for 10+ assemblies, showcasing attention to detail and technical skills.
- Participated in FMEA meetings to resolve manufacturing issues and provided feedback to the design team, highlighting problem-solving and communication abilities.
- Coordinated with manufacturing and supply teams to optimize the assembly line, demonstrating strong organizational and coordination skills.

SKILS

Tools: Python (Proficient), R (Intermediate), SQL (Proficient), GIT (Intermediate), LangChain, RAGAS, Java (Intermediate), Tableau (Intermediate), MS office (Proficient), Pandas, Numpy.

Soft Skills: Teamwork, Communication, Problem Solving, Analytical Thinking.

Tech Skills: Develop ETL pipelines, Data Analysis, Optimisation, Heuristics, LLM & RAG applications development.

Languages: German (Beginner/A1) | English (Business Fluent)

EDUCATION

Master of Science in Data analytics and Decision Science

RWTH Aachen University, Germany   *October 2023 - Current*

- **Relevant Coursework**: Machine Learning, Predictive Modelling, Design and Analysis of Algorithms, Optimisation Models, Heuristics Optimisation, Startup and Growth Management, Strategic Negotiations.
- Recipient of **Deutschlandstipendium**, a prestigious scholarship awarded for academic excellence, social commitment, and personal achievements.
- **Volunteering**: Actively supporting new students as a University Student Ambassador by answering their questions and helping them in any which way possible.
- GPA: 1,4

Diploma in Advanced Computing

Sunbeam Pune, India   *September 2020 – April 2021*

- **Relevant Coursework**: Data Structures, Database Technologies, Web Programming Technologies, OOP with Java.
- Grade: A

Bachelor of Engineering in Mechanical Engineering

Pune University, India   *June 2015 – June 2019*

- Actively participated in various cultural events and competitions for the MIT cultural team, showcasing talents and teamwork.
- Participated in Purushottam and Firodiya Karandak (Theatre Competitions) enhancing my skills in Stage Management, developing creativity and collaboration skills.
- Graduated with a GPA of 1.89 (on a 4.0 scale), demonstrating strong academic performance.

CERTIFICATIONS

- Tableau 2022 A-Z: Hands on Tableau Training for Darta Science | Udemy
- Foundations: Data, Data, everywhere | Coursera
- Programming for Everybody (Getting Started with Python) | Coursera

PROJECTS

Adapting retrieval-augmented generation for complex document review: An exploration of informed consent forms

March 2024 – Current

- Collaborating with Boehringer Ingelheim to ensure the practical applicability of the developed system in a real-world pharmaceutical context.
- Conduct extensive evaluation of the RAG pipeline to enhance its accuracy and reliability.
- Aim to establish foundational functionalities for future RAG evaluations and improvements.
- Technologies used: Python, LangChain, Shiny for Python, and RAGAS

3D Bin Packing ↗   *October 2023 – March 2024*

- A heuristic algorithm to pack heterogenous cuboidal packages into heterogenous cuboidal containers.
- This algorithm was developed to solve a subproblem in an optimisation project for a leading logistics firm.
- The algorithm was able to pack about 500 items in around 37 containers with a volumetric efficiency of 99.75% in under 10 seconds on a system with an 8 core 4.7 GHz processor.
- Technologies used: Python, Gurobi.