

Muskan Paryani

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WORK EXPERIENCE

Deutsche Bank - Senior Software Developer: Python, LLMs, Google Cloud, Blazor, React Js Pune, India(Oct'23 – Present)

- Responsible for reporting financial utilization across various bank divisions, managing transactions amounting to **billions of euros** with a focus on accuracy and compliance.
- Developed a tool for comparative analysis of Financial Soundness Indicators (FSIs) from the ground up, automating report generation and **cutting decision-making time by 30%** while enhancing **report accuracy by 20%**.
- **Rearchitected and migrated** a legacy application to **enforce GAAP rules and standards** for organizing and presenting financial reporting of all Financial Statements Items(FSIs).
- Directed the design and deployment of an innovative **K3-form reporting tool** that streamlined examination processes for balance-of-payments information, improving accuracy in historical comparisons by **25%**.
- Spearheaded the enhancement and deployment of the Balance Scorecard PDF send-out service, **achieving a 40% reduction in manual checks** by implementing user information pre-validation, and enhancing overall report accuracy for senior management.

Deutsche Bank - Software Developer: Python, Java, React Js Pune, India(July'22 – Oct'23)

- Created a custom **LSTM model in Python** using Macro Economic Variables to **predict the bank's next 5-year stock price**.
- Increased efficiency for Capital Forecasting application by **60%** for users by enhancing the process simplification and performance.
- Engineered a high-performance Excel plugin using VSTO resulting in an **80% increased speed** compared to the previous plugin.
- Pinpointed and swiftly resolved critical **production issues** under tight deadlines, achieving a **90% success rate** in root cause analysis and issue resolution.
- Promoted to **Senior Analyst** for exceptional performance, achieving the highest performance ratings awarded.

Barclays - Developer at Corporate Digital Banking, Summer Intern: Java, Jenkins Pune, India(June'21 – July'21)

- Streamlined the code development process by automating builds and deployments using a proprietary platform, **reducing deployment time by 90%** after the pipeline is triggered.
- Devised a dashboard for **managing resources** to enhance resource tracking and management of licenses within the bank.

EDUCATION

- **College of Engineering, Pune** Pune, India
- Bachelor of Technology in Computer Engineering with Honors, **GPA: 8.82/10**, 2018-2022
- **Relevant Courses:** Data Structure & Algorithms; Computer Networking; Database Management; Operating Systems; Data Science.
- **Clubs:** Software Development Section(SDS); SWE (COEP Affiliate); Data Science & AI (DSAI); ASCI COEP; CSI – COEP Chapter.

SKILLS

- **Languages:** C/C++, Python, Java, Javascript.
- **Frameworks:** React js, React Native, Node.js, Spring boot.
- **Tools:** Git, Kubernetes, Docker, MySQL, MongoDB, Google Cloud, Pytest.
- **Other:** Data Structures and Algorithms, Agile Methodologies, Microservices, Test-driven development, Machine Learning.

PROJECTS

Natural Language Text To SQL Query Converter| [Checkout](#)

- Conducted research on 7 methods and 5 most impactful factors to convert natural text to SQL query for maximum accuracy.
- Achieved **79.6% accuracy** for the task on the WikiSQL dataset for 87,726 records, significantly surpassing human accuracy by 12%.
- Proposed Transformer-based Encoder-Decoder model in Tensorflow BERT embeddings and Multi-head Attention mechanism.
- Collected 218 samples from professionals in the field of Data and Business Functional Analysts for better evaluation of results.
- Published a research paper - "**Deep Learning-Based Text to SQL Conversion on WikiSQL Dataset: Comparative Analysis**" in IEEE.

CirQuip (Project Lead) | ReactNative, MongoDB, Express | [Github](#)

- Developed a mobile application, offering professional networking and a student-focused buy/sell platform, resulting in **500+ downloads** in the Google Play Store within the first month.
- Integrated real-time chat functionality with admin support using Socket.io, enhancing user engagement.

ACHIEVEMENTS AND LEADERSHIP

- Winner of National Hackathon(Web-a-thon) - GITAM University.
- **Led the Competitive Coding** portfolio at ASCI COEP.
- Led the development of the Cirquip application for a student startup, overseeing its design and implementation.