

EXPERIENCE

IBM	AI Engineer	April 2024 – Present
<b>WatsonX – AI and Data Platform for Enterprises</b>		
<ul style="list-style-type: none"><li>Architected cutting-edge AI solutions for BFSI clients as part of the Financial Services Market Unit (US), specializing in financial document processing and regulatory-compliant automation solutions</li><li>Delivered successful POCs for content standardization using parallel LLM processing, achieving 97% reduction in processing time, reducing compliance violations</li><li>Architected and deployed an enterprise-grade RAG-based document processing system for automated form filling and response generation from multiple document formats and languages</li><li>Engineered high-performance RAG architectures including Form Filling Assistant, achieving 80% faster document processing across workflows</li></ul>		
Mercedes Benz R&D India	Data Scientist	Sept 2022 – March 2024
<ul style="list-style-type: none"><li>Managed the end-to-end lifecycle of ML models from conceptualization to deployment.</li><li>Conducted EDA and data preprocessing while analysing and ranking machine learning algorithms based on their success probability to address specific problems.</li><li>Built Computer Vision based Analysis for Optimizing Vehicle Design against Dirt accumulated on outer profile</li></ul>		
Daimler Trucks Innovation Centre India	R&D Intern	Nov 2021 – Feb 2022
<ul style="list-style-type: none"><li>Transitioned design calculations for electric vehicle battery digital design from Excel to Python, enhancing efficiency and enabling advanced analytical capabilities</li><li>Conducted competitive market analysis and developed dashboards for leading electric vehicles in the European and Chinese markets</li></ul>		
Schneider Electric	R&D Intern	Nov 2021 – Feb 2022
<ul style="list-style-type: none"><li>Developed machine learning regression models to predict optimal design parameters for digital development of BLDC motors, applied hyper tuning for performance</li><li>Leveraged data analysis techniques to drive substantial improvements in product efficiency and performance</li></ul>		

SKILLS & ABILITIES

Languages & Frameworks	Python, LLMs, HTML, CSS, JavaScript, React.js, Langchain, LlamaIndex, Pytorch, TensorFlow, Scikit-learn, OpenCV
Tools & Technologies	RESTful API, Prompt Engineering, AI Agents, RAG, Vector DB, Streamlit, IBM Code Engine, Docker, Git, GitHub, Power BI

EDUCATION

National Institute of Technology Patna	B. Tech. ME – 8.92/10	Aug 2018 – May 2022
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ACHIEVEMENTS

- Published author on IBM Developer Portal. Engineered and documented open-source implementation of Branched RAG architecture using WatsonX.AI
- Awarded the Mercedes Benz Process Innovation Award 2023 as part of a collaborative team of five for building a recommendation system in a machine learning project
- Rajya Puraskar Awardee 2015 – The Bharat Scouts & Guides