Kirankumar Yadav

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Skills

* Core Competencies: Data Science, Machine Learning, MLOps / LLMOps, Generative AI, and Prompt Engineering.
* Programming and Scripting Languages: Python, SQL, Markdown, HTML, CSS, JavaScript, React, Node, and DAX.
* Data Science Environments: Anaconda, Google Colab, JupyterLab, and Jupyter Notebook Interface.
* Development Environments: Microsoft Visual Studio Code, Firebase Studio, and JetBrains PyCharm.
* Business Intelligence (BI) Tools: Microsoft Power BI, Tableau, and Google Looker Studio (Data Studio).
* Microsoft Excel Analytics Platform: Advanced Excel, Power Pivot, Pivot Table, Pivot Chart, and Power Query.
* Databases: Microsoft SQL Server Management Studio, Teradata, and Databricks Data Intelligence Platform.
* AI Enabled Cloud Infrastructures: Microsoft Fabric, Snowflake AI Data Cloud, and SAP Data Intelligence Cloud.
* Generative AI Tools: Google Gemini, OpenAI ChatGPT, Microsoft Copilot, Anthropic Claude, and Perplexity.
* Productivity: Google Workspace, Microsoft 365, Apple iWork, Atlassian, Quip, Slack, Wrike, Gitlab, and GitHub.

Experience

UST, Bangalore (December 2024 - Present)

Senior Machine Learning Engineer

Broadridge Financial Solutions: Generative AI (GenAI), LLMs, RAG, Agents, and Prompt Engineering.

* OnboardGPT: Led development of an AI-driven onboarding platform that streamlined workflows, optimized configuration, boosted SME engagement, enhanced conversion and operational efficiency by 80%.
* Generative AI (GenAI): Applied Generative AI with strategic prompt engineering to enhance onboarding data and content quality, enhancing LLM response relevance, accuracy, and presentation.
* Snowflake AI Data Cloud: Leveraged an enterprise grade Snowflake Cortex AI to enable scalable data driven decision making across enterprise workflows and automated decision intelligence across business processes.

LTIMindtree, Bangalore (February 2024 - November 2024)

Senior Data Science Specialist

[FOSFOR](https://www.fosfor.com) (Product by LTIMindtree): Data Science, DataOps, MLOps, LLMOps, GenAI, NLP, and NLG.

* Enterprise AI Cloud: Led implementation and application of [Fosfor Decision Cloud](https://www.fosfor.com/decision-cloud/) suite enabling advanced decision intelligence across the enterprise.
* Data Designer | Data Engineering: Implemented a comprehensive DataOps platform, that streamlined and optimized end-to-end data pipelines, improving data quality and processing efficiency by 50%.
* Insight Designer | Machine Learning Operations: Delivered a no-code/low-code platform, accelerating model development, training, and deployment for Data Scientists and Machine Learning Engineers.
* Decision Designer | Advanced Augmented Analytics: Deployed a decision intelligence tool enabling Business Analysts to derive actionable insights via natural language search, with future RAG integration potential.

Tata Consultancy Services, Bangalore (May 2021 - January 2024)

Senior Data Scientist

Apple Inc. SAP: Data Science, Machine Learning Operations (MLOps), and Business Intelligence (BI)

* MLOps with SAP Global System Platform: Directed the MLOps team, enhancing operational efficiency by 45% and reducing incident resolution time by 75% through strategic process optimization.
* SAP Platform Integration: Associated with the SAP Business Technology Platform and Business Application Software Integration Platform teams, to ensure seamless data operations and migrations across [SAP Data Intelligence (SAP DI)](https://www.sap.com/india/products/technology-platform/data-intelligence.html) Platform, Data Lake, and SAP HANA Cloud Sidecar, achieving zero data integrity issues.
* DevSecOps Automation: Partnered and collaborated with the DevSecOps team to automate Jenkins pipelines, reducing deployment time by 80% through streamlined build and promotion processes.

Apple Inc. Business Process Reengineering (BPR): Business Excellence and Optimization

* Label Validation Automation: Pioneered automated label validation for barcode, QR code, data matrices, artwork, and marcom texts of the apple products, reduced the labelling errors by 65%.
* Object Detection Pipeline | YOLOv5: Deployed an auto-train pipeline using YOLOv5 for seamless label detection, decoding, and sequencing of the apple products, improving the detection accuracy by 60%.
* Model Training and Iterative Improvement: Enhanced detection accuracy by 30% through iterative training on extracted label clips, driving continuous improvement of the object detection pipeline.

Hewlett Packard Enterprise (HPE): Supply Chain Analytics and Insights (Advanced Analytics)

* Applied Data Science: Supervised Exploratory Data Analysis (EDA) with data cleansing, transformation, visualization, and feature engineering, achieving a 40% improvement in data accuracy and processing time.
* Power BI Dashboards: Designed interactive dashboards to monitor demand-supply gaps, SKU shortages and line of balance across AMR, EMEA, and APAC regions, enhancing decision-making precision by 30%.

Bluechip Corporate Investment Centre, Mumbai (October 2017 - May 2021)

Senior Data Analyst

* Financial Data Collaboration: Partnered with Accord Fintech and ICRA Analytics, enhancing data quality by 60% and improving the financial analysis accuracy by 45%.
* Market Analysis Integration: Enabled seamless integration with Bluechip Corporate Investment Marketing team, increasing market analysis accuracy by 25%, and empowering more informed decision-making.

Leadership and Activities

Digital Productivity Specialist

* Workflow Optimization: Leveraged Google Workspace, Microsoft 365, Apple iWork, Atlassian (Confluence and Jira), and Salesforce (Quip, Slack, and Wrike) to enhance workflows, boosting the overall efficiency by 40%.
* Product Innovation: Engaged in early access programs (Experiments, Early Access, Public Previews, and Beta Versions), providing actionable feedback on features, usability, and accessibility for applications and OS updates.

Corporate Social Responsibilities

* Industry Conference Participation: Google I/O, Microsoft Build, Apple WWC, Samsung SDC, CES, Snowflake and Adobe Summit to stay current. Gained productive and actionable insights to drive emerging technologies.
* Diverse Event Coordination: Directed technical workshops and New Product Introduction events.

Education

* Postgraduate Certification: Data Science and Artificial Intelligence, Mumbai (2020)
* Bachelor of Engineering (B.E.): Computer Engineering, University of Mumbai (2017)

Certification

* [Google GenAI Leader](https://coursera.org/share/45a0889f80519c8178b42223fe0686de) | [Google AI Essentials](https://www.coursera.org/account/accomplishments/verify/UXYT2W1JJZQO) | [Google Prompting Essentials](https://www.coursera.org/account/accomplishments/records/ZC85E8QNDFQB) | [Click here to view my portfolio](https://iamkirankumaryadav.super.site/certification).