

# Kirankumar Yadav

Position: Senior Data Scientist • Email: [iamkirankumaryadav@gmail.com](mailto:iamkirankumaryadav@gmail.com) • Phone: [9004967226](tel:9004967226)  
LinkedIn: [linkedin.com/in/iamkirankumaryadav](https://www.linkedin.com/in/iamkirankumaryadav) • Professional Portfolio: [GitHub](#) and [Website](#)

## Skills

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- Core: Data Science, MLOps, DataOps, GenAI, NLP, Advanced Analytics, and Business Intelligence (BI).
- Languages: Python, SQL, Markdown, Data Analysis Expressions (DAX), HTML, CSS, JavaScript, Bootstrap.
- Data Science Environments: Anaconda, JupyterLab, and Jupyter Notebook Interface.
- Source Code Editor: Microsoft Visual Studio Code, JetBrains PyCharm, and JetBrains Fleet.
- Libraries: Pandas, NumPy, PySpark, Matplotlib, Seaborn, Plotly, Bokeh, Scikit Learn, etc.
- Business Intelligence (BI) Tools: Microsoft Power BI, Tableau, and Google Looker Studio (Data Studio).
- Microsoft Excel Analytics: Advanced Excel Power Pivot, Pivot Table, Pivot Chart, and Power Query.
- Databases: Microsoft SQL Server Management Studio, Teradata, Databricks, and Snowflake.
- Cloud Infrastructures: AWS Data Lab, AWS Workspace, Microsoft 365 Cloud PC, and ServiceNow.
- Generative AI (GenAI): OpenAI ChatGPT, Google Gemini, Microsoft Copilot, FOSFOR AI, and Notion AI.
- Productivity: Google Workspace, Microsoft 365, Apple iWork, Atlassian, Quip, Slack, Wrike, and GitHub.
- Creativity: Canva, Adobe Express, Adobe Firefly, Microsoft Designer, Midjourney, and Miro.
- Foresight: Microsoft Fabric, Google Marketing Platform, Framer, Figma, and Adobe Creative Cloud.

## Experience

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LTIMindtree, Bangalore (February 2024 - Present)

Data Science Specialist

**FOSFOR** (Product by LTIMindtree): Data Science, DataOps, MLOps, LLMops, GenAI, NLP, and NLG.

- Led the implementation of an enterprise cloud-based suite the [Fosfor Decision Cloud](#) encompassing:
- **Data Designer | Data Engineering**: Implemented a comprehensive DataOps platform, that enabled the Data Engineers to streamline, transform, simplify and optimize the end-to-end data pipelines. Achieved a 25% improvement in data quality and processing efficiency through DataOps implementation.
- **Insight Designer | Machine Learning Operations**: Implemented an enterprise MLOps platform to adopt a no-code/low-code approach that enabled the Data Scientists and Machine Learning Engineers to develop, build, train, and deploy ML and LLM models at an accelerated pace.
- **Decision Designer | Advanced Augmented Analytics**: Implemented a decision intelligence tool to empower Business Analysts to gain actionable insights through Natural Language Search and Advanced Augmented Analytics which can be enhanced further with Retrieval Augmented Generation (RAG).

Tata Consultancy Services, Bangalore (March 2022 - January 2024)

Senior Data Scientist

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

- Directed the MLOps Team, overseeing operations and long-term sustenance efforts. Achieving a 45% increase in operational efficiency and a 25% reduction in incident resolution time through strategic process optimization on Systems, Applications and Products in Data Processing (SAP) Global System Platform.
- Revamped project management processes by implementing Wrike and ServiceNow Help Central, the project management application improved team collaboration and project delivery timelines by 35%.
- Associated with the SAP Business Technology Platform (BTP) Team and Business Application Software Integration Platform (BASIS) Team, ensuring smooth operations and migrations of data in the [SAP Data Intelligence \(SAP DI\)](#) Platform, Data Lake, and SAP HANA Cloud Sidecar, resulting in zero data integrity issues.
- Improved code quality and deployment efficiency by integrating SAP DI with GitHub Enterprise for creating CI/CD workflows. Conducted productive code reviews, reducing integration issues by 40%.
- Enhanced codebase security with Gatehouse Check Engine and SonarQube for code and host scanning, reducing vulnerabilities by 30%.
- Teamed up with the Development, Security, and Operations (DevSecOps) Team for Jenkins automation, triggering pipeline builds and promoting solutions. Automation reduced the deployment time by 80%.
- Coordinated with the Quality Assurance Team for PT (Performance Testing), RT (Regression Testing), and UAT (User Acceptance Testing) approvals and signoffs before promoting the production deployments.

## Data Scientist

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

- Pioneered automatic label validation processes, ensuring the accuracy and integrity of product labels (Barcode, QR code, data matrix, artwork, and marcom texts), reduced the labelling errors by 34%.
- Deployed **Object Detection Auto-Train Pipeline** utilizing YOLOv5, enabling the seamless detection, decoding, and sequencing of labels. This deployment improved the label detection accuracy by 30%.
- Trained models with extracted label clips, the training enhanced the detection accuracy in subsequent iterations by 20%, contributing to the continuous improvement of the object detection pipeline.
- Executed the **Object Detection Auto-Train Pipeline** on Simcloud, validating outputs and ensuring a 22% increase in overall accuracy, reducing false positives and negatives.

## Digital Productivity Specialist

- Applied knowledge in **Google Workspace**, **Microsoft 365**, **Apple iWork**, **Atlassian (Confluence and Jira)**, and **Salesforce (Quip, Slack, and Wrike)** to significantly enhance workflows for individuals and organizations, The applications improved the overall efficiency and collaboration by 40%.
- Organized comprehensive training initiatives, empowering teams to effectively use productivity tools. Achieved a 25% increase in team proficiency and a notable reduction in support requests.
- Engaged in early access programs (**Experiments, Early Access, Private Previews, and Beta Versions**) for new applications and OS updates, providing constructive feedback on features, usability, and accessibility.
- Established a comprehensive portfolio demonstrating proficiency in productivity tools, facilitating effective communication of skills. This initiative increased the professional visibility and opportunities by 60%.

## Foraysoft, Hyderabad (May 2021 - February 2022)

### Data Scientist

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

- Supervised **Exploratory Data Analysis (EDA)** with data cleansing, data transformation, data preprocessing, data visualization and feature engineering in Python. Achieved a 40% improvement in data accuracy and processing time.
- Conducted **Advanced Excel Analytics**, including **Power Pivot, Pivot Table, Pivot Charts, and Power Query**, to streamline data analysis and reporting processes. This optimization increased the report accuracy by 35% and reduced the manual data handling by 80%.
- Engineered interactive dashboards with **Microsoft Power BI** to monitor demand-supply gaps, SKU shortages and line of balance across AMR, EMEA, and APAC regions. The dashboard improved the decision-making precision by 30%.
- Applied **Data Science, Machine Learning, and Business Intelligence** methodologies in the Hi-Tech domain. Contributed to a 20% increase in operational efficiency and a 65% improvement in strategic decision-making.

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

### Senior Data Analyst

- Collaborated with **Accord Fintech** and **ICRA Analytics**, enhancing data quality by 60% and improving the accuracy of financial analyses by 45%.
- Enabled seamless integration with the **Bluechip Marketing Team** that improved the accuracy of market analyses by 25%, empowering more informed decision-making.

## Leadership and Activities

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### Corporate Social Responsibilities

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

## Education

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