

# Nisarga Prakash

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## PROFESSIONAL SUMMARY

Senior Business Data Analyst with 5+ years of experience delivering data-driven insights across insurance, financial services, and consulting. Expertise in Python, SQL, SAS, and cloud analytics platforms to build predictive models, optimize data pipelines, and design executive dashboards. Proven ability to translate complex business requirements into scalable solutions while collaborating with cross-functional teams in Agile environments.

## TECHNICAL SKILLS

**Programming & Analytics:** Python (Pandas, NumPy, Scikit-learn, TensorFlow, Matplotlib, Seaborn), SQL (MySQL, PostgreSQL, T-SQL, PL/SQL), SAS, R (ggplot2), Statistical Analysis, Predictive Modeling, Forecasting, Hypothesis Testing, A/B Testing, Feature Engineering

**Data Visualization & Reporting:** Tableau, Microsoft Power BI, Looker, Dash, Excel (Advanced formulas, Pivot Tables, VBA macros), Data Storytelling, Executive Dashboards, KPI Design

**Cloud & Big Data:** AWS (S3, EC2, Lambda, Redshift), Azure (Data Factory), GCP (BigQuery), Databricks, Apache Spark, Kafka, Snowflake

**Databases & Data Management:** MySQL, PostgreSQL, SQL Server, Oracle, MongoDB, Snowflake, Data modeling, ETL pipelines, Data warehousing

**Business Analysis & Documentation:** Requirements gathering (BRD, FRD, SRS, RTM), User Stories, GAP Analysis, SWOT Analysis, Root cause analysis, Cost-benefit analysis, Risk assessment, Process optimization, Stakeholder management

**Project Management & Collaboration:** JIRA, Confluence, UAD, JAD, Git/GitHub, HP Quality Center, Gantt Charts, Agile/Scrum, Waterfall, SDLC

## WORK EXPERIENCE

### Senior Data Analyst | American International Group (AIG)

Jan 2025 - Present

- Architected and optimized SQL and SAS analytics pipelines processing 10M+ insurance records daily, improving data extraction efficiency by 30% and enabling real-time underwriting, claims analytics, and regulatory reporting for enterprise operations.
- Developed predictive risk assessment and claims forecasting models using Python (Scikit-learn, TensorFlow) with 92% accuracy, identifying \$2.5M in loss prevention opportunities and optimizing policy pricing for 500K+ policies.
- Designed interactive Looker and Dash dashboards visualizing 20+ KPIs including claims trends, loss ratios, and operational metrics for C-suite executives, reducing manual reporting effort by 35% and enabling data-driven decision-making.
- Implemented real-time and batch data ingestion pipelines using Apache Spark, Kafka, and Databricks on AWS, processing 5TB+ monthly data with 99.9% uptime and sub-second query latency for mission-critical analytics.
- Collaborated with underwriting, claims, actuarial, and compliance teams to translate complex business requirements into technical specifications (SRS, BRD, FRD), reducing development rework by 40% and accelerating cross-functional delivery by 25%.

### Senior Data Analyst | Mindtree

Feb 2021 - Dec 2023

- Delivered end-to-end analytics and reporting solutions for Fortune 500 insurance and financial services clients using Python, SQL, and SAS, improving data accuracy by 28% and reducing decision-making turnaround by 3 days.
- Designed and maintained 15+ Tableau and Looker dashboards tracking portfolio performance, customer segmentation, and operational KPIs, enabling self-service analytics and reducing manual reporting by 30% across leadership teams.
- Conducted comprehensive GAP analysis, impact assessments, and risk analyses across 8 business processes, identifying data quality issues and inefficiencies that resulted in 15-20% operational efficiency gains and \$1.2M annual cost savings.
- Optimized cloud-based analytics workloads on Databricks and MongoDB through indexing strategies, query tuning, and partitioning, improving performance by 45% for 2M+ customer records and reducing infrastructure costs by 20%.
- Designed scalable dimensional data models (star and snowflake schemas) supporting predictive analytics, financial forecasting, and management reporting across 5 business units, reducing data retrieval time by 50%.

### Data Analyst | Ernst & Young (EY)

Mar 2020 - Jan 2021

- Developed and deployed 8+ Power BI dashboards monitoring financial performance, budget variance, cost allocation, and operational KPIs for audit and advisory teams, reducing reporting cycles by 40% and improving executive visibility.
- Performed detailed cost-benefit analysis, impact assessments, and feasibility studies for system enhancement initiatives across finance and compliance functions, identifying optimization opportunities that delivered \$500K in operational savings.
- Managed project schedules, dependencies, risks, and milestones using MS Project and JIRA for multiple concurrent engagements, achieving 95% on-time delivery rate across Waterfall and hybrid Agile methodologies.
- Optimized enterprise databases (MySQL, SQL Server, Snowflake) by implementing indexing strategies and query tuning, improving query performance by 30% and supporting efficient data retrieval for finance and audit teams.

### Data Analyst Intern | Ernst & Young (EY)

Sept 2019 - Feb 2020

- Supported development of Power BI dashboards and financial reports analyzing cost structures, revenue trends, and departmental KPIs for consulting and audit teams across multiple client engagements.
- Conducted data analysis and validation using SQL and Excel to support feasibility studies, identifying process inefficiencies and contributing to recommendations that improved operational workflows.
- Assisted senior analysts in gathering business requirements, documenting functional specifications, and creating test cases for system enhancement projects in finance and compliance domains.
- Supported Azure-based data pipeline development and analytics workflows, gaining hands-on experience with cloud data processing, ETL operations, and ensuring data quality for reporting deliverables.

## EDUCATION

**Master of Science, Business Analytics** | DePaul University, Chicago, IL, USA | GPA: 4.0/4.0 |

Received the Dean's Award for Scholastic Excellence | Top 5% of students

**Bachelor of Engineering, Electronics and Communication Engineering** | Visvesvaraya Technological University, KA, India | GPA: 8.2/10.0