

NEELAMBIKA PATIL

BUSINESS DATA ANALYST

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SUMMARY

Business Analyst and Data Analyst with 4+ years of experience in Agile and SDLC environments. Skilled in Python, SQL, R, and BI tools like Power BI, Tableau, and ggplot2 for data storytelling. Experienced in MySQL, data wrangling, process automation, and BI reporting analysis. Expert in stakeholder communication, requirements gathering, and business process modeling. Proficient in GAP/risk analysis and project tools like Jira, MS Project, and SharePoint.

SKILLS

Methodologies & Documentation: SDLC, Agile (Scrum), Waterfall, FRD, BRD, SRS, Use Cases, User Stories, JAD, RTM, UAT

Programming & Scripting: Python, R, SQL, Java, Scala, Spark Scala, HiveQL, Shell Scripting, Pig

Data Analytics & Libraries: Pandas, NumPy, Matplotlib, Seaborn, SciPy, Scikit-learn, TensorFlow, ggplot2

Databases: MySQL, SQL Server, PostgreSQL, Oracle, Teradata, Amazon RDS, MongoDB, Cassandra, HBase, DynamoDB

Data Warehousing & ETL: Snowflake, Redshift, Teradata, AWS Glue, Azure Data Factory, Apache Airflow, Sqoop, Flume

Big Data & Streaming: HDFS, PySpark, Hive, MapReduce, Spark, Spark Streaming, Kafka

Cloud Platforms: AWS (S3, EC2, Redshift, EMR, Athena, SNS, SQS, Glue, CloudWatch, Route53, IAM, Lambda, Step Functions), GCP

Visualization & Reporting: Tableau, Power BI, SSRS, Microsoft Excel, Microsoft Office Suite (Word, PowerPoint, Outlook)

Tracking & Monitoring: Microsoft Visio, HP Quality Center, Rational ClearQuest, Splunk, Nagios, ELK

Containerization & CI/CD: Docker, Kubernetes, OpenShift, Jenkins, Maven, Gradle, Bamboo

Version Control: Git, GitHub, GitLab, Bitbucket

Core Analytical Skills: Data Cleaning, Data Wrangling, Cost/Benefit, Impact, GAP, Risk & SWOT Analysis, Critical Thinking, Communication, Presentation, Problem-solving

Operating Systems & IDEs: Windows, Linux, MacOS, PyCharm, Jupyter Notebook

PROFESSIONAL EXPERIENCE

McKinsey & Company, USA | Business Data Analyst

Mar 2024 - Current

- Collaborated with cross-functional teams to gather, document, and translate business requirements into BRDs, SRS, and logical data models, reducing change request cycles by 18%.
- Conducted in-depth cost-benefit and impact analyses for new system enhancements, helping optimize department-level budgets and reducing underutilized resources by \$75K annually.
- Led Agile/Scrum sprint planning and backlog grooming using Jira and MS Project, improving task completion accuracy and reducing sprint rollover rates by 22%.
- Streamlined inventory and supply chain processes using Oracle ERP Cloud and Dynamics 365, cutting stock-out incidents by 17% and improving order fulfilment time by 10%.
- Performed targeted data analysis using Python (Pandas, NumPy, SciPy) and complex SQL joins, uncovering order processing bottlenecks that reduced fulfilment delays by 14%.
- Extracted and analyzed datasets from Snowflake, BigQuery, and Redshift to support procurement planning, improving vendor performance evaluation cycles by 28%.
- Built robust ETL pipelines with Apache Airflow, dbt, and Azure Data Factory, reducing manual data handling errors by 35% and cutting data latency from 24 to 6 hours.
- Designed and maintained interactive BI dashboards using Tableau, Looker, AWS QuickSight, and Excel, reducing manual reporting efforts by 40 hours per month and enhancing executive visibility into KPIs.
- Created tailored visualizations and self-service reports that supported quarterly business reviews, increasing stakeholder adoption of analytics tools by 30%.

Accenture, India | Application Development Analyst

Dec 2020 - Dec 2022

- Designed and launched a scalable in-house e-commerce platform with a componentized UI architecture in React.
- Leveraged the Intersection Observer API for on-demand image and data loading, which reduced page load times by 40%, while providing a frictionless scroll-through catalog experience on both mobile and desktop.
- Automated end-to-end process flows using Python, Excel, and BPMN within ERP and CRM systems, reducing processing time for customer support tickets by 35% and improving SLA adherence.
- Worked alongside engineering teams to enhance BI API integrations and optimize ETL performance, reducing data latency in dashboards by 45%.
- Conducted detailed Root Cause Analysis (RCA) and 5-Why sessions on cross-system data mismatches, resulting in a 22% drop in repetitive data entry errors across sales and finance workflows.
- Spearheaded the integration of Oracle ERP Cloud and Microsoft Dynamics 365 with business applications, improving operational decision cycles by 3 business days.
- Led User Acceptance Testing (UAT) across three business-critical applications, reducing post-launch incidents by 20% and ensuring smoother user onboarding.
- Built predictive models using Scikit-learn and TensorFlow to assess quarterly product demand, increasing forecast reliability by 18% and reducing inventory overstock by 12%.
- Established a data quality audit framework across finance and logistics data pipelines, improving dataset accuracy by 25% and achieving full compliance with internal data policies.
- Designed and deployed automated reporting dashboards in Tableau, AWS QuickSight, and Looker, cutting down weekly reporting efforts by 40% and enabling leadership to access KPIs with near real-time latency.
- Collaborated with business units to develop self-service BI solutions, reducing ad hoc report requests to the analytics team by over 30% within 4 months.

KPMG by Inside Sherpa, India | Business Data Analyst

Jul 2019 - Dec 2020

- Collaborated with stakeholders to integrate Oracle ERP Cloud and Microsoft Dynamics 365 with BI tools, streamlining business operations and improving cross-functional data flow.
- Conducted business process reviews on supply chain workflows, reducing stock discrepancies by 20% and achieving 15% cost savings through data-informed procurement strategies.
- Led User Acceptance Testing (UAT) for analytics platforms, identifying functional gaps and ensuring a 25% reduction in post-deployment change requests.
- Audited data frameworks to ensure alignment with regulatory standards, improving governance compliance and reducing data quality issues by 30%.
- Developed machine learning models using Python (Scikit-learn, TensorFlow) and SQL to forecast product demand, boosting forecast accuracy by 22% across seasonal cycles.
- Applied k-means clustering and linear regression techniques to refine customer segmentation, improving campaign targeting and increasing retention by 18%.
- Analyzed large-scale operational datasets from ERP and CRM systems to uncover inefficiencies, enabling data-driven recommendations for cross-departmental planning.
- Automated KPI dashboards using Tableau, Looker, and AWS QuickSight, cutting manual reporting hours by 45% and delivering real-time executive insights.
- Created interactive visualizations for performance tracking and variance analysis, leading to faster decision cycles during monthly business reviews.
- Standardized reporting metrics across departments, improving reporting consistency and reducing discrepancies in financial and operational dashboards.
- Designed and maintained ETL pipelines using Apache Spark, dbt, and Azure Data Factory, increasing data processing efficiency by 30% and enabling faster business insights.

EDUCATION

Masters in Information Technology and Management

The University of Texas at Dallas

Bachelor of Engineering in Computer Science

Visvesvaraya Technological University, India

PROJECTS

Big Data Risk Analysis for Truck Fleet Management

Aug 2024 - Dec 2024

- Led analysis of large-scale truck fleet data using the **Hadoop ecosystem** (HDFS, Hive, MapReduce), improving safety metrics by **12%** through risk mitigation strategies.
- Developed **predictive machine learning models** in Python to assess risk factors and enhance data-driven fleet operations.
- Applied **data wrangling and visualization techniques** to identify high-risk behaviors and geographies.

Performance Analytics of NBA Games using ETL and Visualization Tools

Jan 2024 - May 2024

- Directed automation of ETL workflows with Talend, Python, and Spark, reducing manual data preparation by 47%.
- Designed and deployed interactive Tableau dashboards, improving stakeholder engagement by 25% through actionable performance insights.
- Led a 4-member team to analyze player and team performance using statistical analysis and KPIs.

Mental Health Tracker – Mobile & Cloud-Based Solution

Aug 2023 - Dec 2023

- Developed a mental health tracker app with real-time sentiment analysis using NLP and Python, providing mental health alerts based on journal inputs.
- Integrated cloud services for data storage and access using Firebase and Google Cloud Platform, enabling seamless cross-device synchronization.
- Implemented data visualization dashboards in Power BI to track mood trends, aiding clinicians and users in early diagnosis.