Kumar Abhinav

Business Data Analyst

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| **Core Technologies & Skills**  **Data Analytics & Business Intelligence:**  SQL, Tableau,  Advanced Excel  Data Cleaning  ETL Pipelines  Reporting Automation  KPI Tracking  Dashboard Development  Data Visualization  **AI & Machine Learning:**  Agentic AI, Data Mining  Time Series Forecasting | Seasoned Business Data Analyst with deep expertise in business intelligence, financial analytics, ETL pipeline development, data modeling, API development, and AI/ML solutions. Proven track record of driving strategic insights and operational excellence through cross-functional collaboration and advanced Generative AI technologies. Adept at streamlining business processes and delivering high-impact insights under tight deadlines  **Career Highlights**   * **AI & Automation Mastery (LinkedIn):** Engineered AI-powered APIs using Python/FastAPI to automate IT ticket resolution via ServiceNow-JIRA integration, migrated a fragmented Java chatbot backend to a unified Python architecture, and orchestrated fault-tolerant workflows with Temporal—cutting resolution times by up to 45% and slashing operational overhead. * **Cutting-Edge Analytics & Cost Optimization (RFXCEL):** Spearheaded the launch of a next-gen supply chain dashboard for the Kingdom of Bahrain, leveraging a secure SQL-to-Elasticsearch pipeline to reduce data latency by 50% and boost efficiency by 25%. Deployed predictive models that enhanced supplier performance by 30% while streamlining operations and driving a 15% reduction in expenses. * **Global Supply Chain Transformation (VVF India Limited):** Revolutionized inventory management and production processes through data-driven analytics and automation, cutting global inventory by 25% and manufacturing losses by 22%,. |

**Work Experience**

**LinkedIn** | **Sr. Software Engineer (Contractor)**, Mountain View, CA. October 2024 to Present

In this role, I develop and deploy AI-driven automation solutions using Python and FastAPI to enhance internal operations. By modernizing legacy systems, integrating data sources, and improving process efficiency, I reduce manual intervention and improve system resilience, all of which contribute to a more streamlined and scalable infrastructure.

**Specific projects:**

* **API Development & Integration:** Integrated ServiceNow and JIRA to build an AI-driven automation solution that analyzes IT tickets, mines internal knowledge bases for solutions, and auto-closes confirmed ticket improving MTTR by ~40-45%, lowering operational costs by 30 -35 %.
* **Backend Migration of Internal Chatbot:** Led the complete migration of internal chatbot backend layer from Java to Python, consolidating multiple fragmented codebases into a single, streamlined architecture. This transition improved operational efficiency by 35-40% and resulted in significant cost savings $ X K by reducing the need for additional engineering resources and enabled the decommissioning of three Java-based VMs, reducing infrastructure overhead
* **Daemon Orchestration with Temporal:** Migrated legacy background daemons to Temporal for fault-tolerant, stateful workflows. This significantly reduced downtime, enabled automatic retries, and provided improved visibility via the Temporal Web UI. The new orchestrated approach minimized manual intervention and streamlined operational overhead.
* **Chatbot Package Optimization & Build Time Reduction:** Refactored the internal chatbot backend by removing redundant dependencies, reducing package size by 45%, accelerated build times, lowered infrastructure costs, & eased engineering workload.

**RFXCEL** | **Tech Lead – Business Analyst & Data,** San Ramon, CA, May 2023 – Dec 2024

After leaving VVF India Limited to pursue an M.S. in Business Analytics, I joined RFXCEL as a summer intern, where my impactful contributions led to a full-time offer. In my role as Tech Lead – Business Analyst & Data, I spearhead data-driven initiatives, architect scalable ETL pipelines, and develop real-time analytics solutions that enhance decision-making, streamline operations, and drive business efficiency.

**Specific projects:**

* **Analytics System Design & Implementation:** Designed and implemented a supply chain analytics dashboard for the Kingdom of Bahrain their largest revenue client. Overcame ambiguous requirements by architecting a secure pipeline to migrate critical SQL data to an Elasticsearch-backed NoSQL system. Reduced data retrieval latency by 50% and improved operational efficiency by 25%, while coordinating cross-functional offshore teams and driving effective change management for smooth adoption.
* **Operational Cost Data Analysis:** Conducted a profitability analysis employing innovative cost-saving strategies, including migrating from Windows to Linux and moving six-year-old data to cold storage. These measures cut operational expenses by 15%, boosted system performance by 10%, and improved financial stability through optimized resource allocation.
* **AI-Driven Automation for Supplier Intelligence & Cost Optimization:** Deployed a Generative AI tool for real-time SQL database querying, eliminating manual supplier data retrieval and reducing ticket resolution time by 35-40%. Automated DSCSA compliance data management, removing the need for 10-15 contract roles and saving approximately $XK, thus enhancing operational efficiency and resource allocation.
* **Public API Development for SAP Integration:** Developed a Java-based public API for AbbVie’s Luprolink platform to automate data processing between their SAP system and internal databases, introducing a new revenue-generating product. Eliminated manual order creation and enabled real-time data synchronization, this solution accelerated order processing by 30%.

**Vvf India Limited** | **Manager** **Data Analytics** - **Supply Chain**, Mumbai, India. Dec 2017 to Aug 2022

Led high-impact supply chain analytics initiatives that optimized inventory management, cost efficiency, and compliance, successfully passing McKinsey internal audits. Spearheaded SAP GST implementation, achieving seamless process automation across procurement, manufacturing, and finance.

**Specific projects:**

* **Renewable Energy Performance Analysis:** Collaborated with cross-functional teams to assess and model energy yield from solar installations, leveraging historical production data and weather forecasts to optimize operational efficiency and reduce energy costs.
* **Wind Energy Data Integration:** Developed analytical frameworks to evaluate wind energy potential by integrating SCADA data and real-time sensor readings, contributing to enhanced predictive maintenance and performance optimization strategies.
* **Multi-Dimensional Data Analysis**: Designed a strategic inventory segmentation framework using quantitative analysis and supply chain heuristics (JIT, VMI), reducing global inventory by 25% and achieving $X million in cost savings.
* **Manufacturing Cost Analysis & Efficiency Gains**: Developed predictive analytics models (Python, regression) to detect and eliminate inefficiencies in production workflows. This initiative cut manufacturing losses by 22%, saving $X million annually.
* **Demand Forecasting & Resource Planning**: Enhanced forecasting accuracy by 20% through historical data modeling, market trend integration, and supplier constraint analysis. Implemented Excel Solver-driven scenario planning, minimizing stockouts and optimizing resource allocation.

**Early Career: India Power Limited, Bajaj Energy Limited, Abhijeet Projects Limited, Airox Nigen.** Apr 2009 – Nov 2017Various Locations

* **Renewable Energy Initiatives:** Assisted in small-scale renewable energy projects focusing on solar and wind system performance. Supported data collection and preliminary analysis for energy yield estimation and system efficiency improvements.

**Skills**

**Functional:** Data Analysis, Dash Boarding, Data Governance, Data Quality Assurance, Data Optimization, Process Mapping, Delivery Presentation, Agile, SDLC, Jira, Git

**Technical:** Python, Java, FastAPI, MySQL, Elasticsearch, Kibana, Tableau, Advanced MS Excel, Langchain, Azure, Apache Airflow

**Education and Academic Background**

**California State University East Bay**, Hayward, CA

**M.S. in Business Analytics**, Aug 2022 to Dec 2023

**Sathyabama Deemed University** Chennai, India

**B.Tech. in Chemical Engineering (Major),** Aug 2005 - April 2009

**Computer Science & Engineering (Elective)** Aug 2006 – April 2009