Manish Kumar

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PROFESSIONAL EXPERIENCE:

Experienced Data Scientist & BI Advisor with over 12 years of experience in designing and delivering end-to-end Business Intelligence and AI-powered analytics solutions. Proficient in Power BI, Tableau, Alteryx, SQL, Python with NLP / LLM / RAG and GenAI

ARTIFICIAL INTELLIGENCE, MACHINE LEARNING & DATA SCIENCE

- Strong knowledge on Machine Learning, Deep Learning and Large Language Model.
- Experience in implementing Generative AI (GenAI) solutions using large language models LLMs such as Gemini, Gorq, and LLaMA for applications like chatbot and text summarizing.
- Conducted A/B testing on data processing algorithms to evaluate processor performance optimizations, resulting in a 25% reduction in execution time.
- Deployed machine learning models to predict silicon chip failure rates and diagnose potential failure causes at each production milestone, reducing defect rates in chip.
- Experience with Python libraries: Scikit-learn, TensorFlow, Pandas, NLTK, NumPy

BUSINESS INTELLIGENCE & DATA ENGINEERING

- Implemented end-to-end BI solutions from data gathering and modeling to cube development, dashboard creation, deployment, and post-development support.
- Automated 70+ reports using Power BI and Tableau, saving 50k+ hours annually.
- Created dynamic and insightful dashboards using custom visuals like donut charts, dual-axis charts, word clouds, and KPI indicators in Tableau and Power BI.
- Proficient in writing DAX and hands-on experience using Power BI Query Editor multiple data transformations - including splitting columns, creating measures, removing rows etc.
- Created PySpark scripts to load data from source files and perform transformations, aggregations ensuring clean and structured data for reporting and Machine Learning.

LEADERSHIP & COLLABORATION

- Successfully led a team of six in gathering requirements, understanding business needs, task delegation, and delivery of analytics projects.
- Collaborated cross-functionally with stakeholders to gather requirements and convert them into scalable BI solutions and advanced analytics use cases.
- Always staying updated with the latest tech and introduced AI/ML elements into BI.

EDUCATION:

Master of Science in Data Science from Chandigarh University
Bachelor of Computer Application from West Bengal University of Technology

CERTIFICATION and ACHIEVEMENT:

- Intel Certified Data Analytics Power BI Fundamentals
- Intel Certified OpenVINO and AI Inference
- Intel Certified GitHub Copilot
- Azure Developer Associate AZ 204
- Intel Certified NLP BST
- Certified Intel Gaudi AI Accelerator
- Deep Learning with PyTorch on Intel Gaudi AI
- Intel Certified Generative AI for IT Solutions
- Intel Certified GEN AI and LLM for Real World

PROFESSIONAL EXPERIENCE:

Data Scientist at Intel Corporation from November 2022 – Present

Project Title : Server IP & AI Silicon Engineering
Environment : Python with LLM & GenAI, Azure Databricks, Power BI
Description : Intel Server IP & AI Silicon Engineering combines energy efficient hardware to boost AI computation with high performance capabilities, and in conjunction with the Business Unit, our team develops and designs various AI solutions to support the ecosystem.

Responsibilities:
- Assisting multiple teams within SIPG Business Unit to support Business Intelligence and AI initiatives, including Power BI dashboards, SSAS cubes, Python automation scripts, and large language model (LLM) integrations.
- Accountable for Leading and overseeing a six-member team in gathering and interpreting requirements, as well as delegating tasks to developers.
- Connected 20+ data sources into the Azure Databricks platform to enable end-to-end analytics workflows for data analysis and AI solutions.
- Utilized ION session manager to automate data workflows and ETL process using PySpark.
- Developed custom alerts using Python scripts based on user ids with details about silicon test planned, approved, rejected, or required retesting week over week.
- Developed a model optimizer with OpenVINO to support popular LLM frameworks for identifying key point from large silicon test documentation.
- Used TensorFlow and PyTorch to develop natural language processing (NLP) tasks, including text classification, sentiment analysis and language generation.
- Developed GenAI solution for creating unique social media content by integrating Hugging Face LLaMA-based models with the LangChain framework.

Business Intelligence Advisor at Dell Technologies from April 2019 – November 2022

Project Title : Software and Peripherals Transformation
Environment : Python, SQL, SSAS, Power BI
Description : Using Dell chat support data, the Presales team identifies commonly used keywords and frequently asked questions from different countries and product categories. This manual task was automated using Python Natural Language Processing with more than 70% accuracy, further enhanced up to 90%.

Responsibilities:
- Acquired data from SQL server and BMS Cube for analysis.
- Utilized Python for Natural Language Processing (NLP) to identify top keywords.
- Identify frequently asked questions from large chat data using KeyBART AI model helping product team to find insight at different LOBs.
- Identified top keywords at various levels of the LOB using custom packages also identified most common phrases from large sentence of different product category.
- The valuable insights from data further used by product team to add or remove features from products and company website.
- Performed Lemmatization and word tokenization on chat data for better output.
- Removed stopwords, special characters, customer information and blank rows before analyzing the data.
- Mentored junior engineers in NLP methodologies and best practices.
- Worked with cross-functional teams to integrate NLP solutions into enterprise application.

Senior Analyst, IT with VARITE India (Deployed at Dell) from Jul 2018 - Apr 2019

Project Title   : Legal BI (Dell)
Environment   : Tableau, S Q L , SSAS, SSIS
Description   : Dell Legal team keep their data in multiple 3rd party applications.
We helped the Business in data acquisition and transforming the data into usable format for
creating Dashboard with multiple Intelligence.

Responsibilities:
- Involved in data acquisition from multiple sources like Concur, T360, Saba, Workday, SharePoint and ServiceNow.
- Transformed data from an unstructured table to retaliation structured table.
- Developed end to end Business Intelligence solutions on project like Dashboard, KPI, OLAP Cube, Analytics Chart and Reports.
- Created different visualization using Bars, Lines, Maps, Heat maps and combined chart.
- Enhanced the reports by adding bookmarks, page navigation, and glossaries.

Software Engineer at Aroha Technologies from Nov 2016 - Dec 2017

Project Title   : Finance Management System (Honeywell Technology Solutions)
Environment   : Tableau, Alteryx & SQL
Description   : Honeywell's Global Finance Centre has helped the company's 14
business units and its leaders to drive smart business decisions by using business intelligence tools
like Tableau and Alteryx.

Responsibilities:
- Work with business partners to understand business objectives and develop value-added reporting and provide ad-hoc data extracts and analysis.
- Manage the ETL process (Tools: ALTERYX) across structured and unstructured data sources to ensure data are suitable and effective for further analysis in Tableau.
- Creating Tableau Extracts (.tde) using Alteryx as Input for Tableau.
- Developed Alteryx workflows for extracting, transforming and analyzing data.
- Created Actions and custom interactivity within Tableau Dashboard and views.

Analyst at LocVille Online Pvt Ltd from May 2014 to Nov 2015
Responsibilities:
- Coordinating with business to ensure product content is accurate and correctly nested.
- Developed visualized reports and dashboard in Tableau using Tableau Desktop.
- Publishing customized interactive dashboards and scheduling on Tableau server.
- Created action filters, parameters and calculated sets for preparing Tableau.
- Built dashboards for measures with forecast, trend line and reference lines.
- Developed Tableau workbooks from multiple data sources using Data Blending.

Catalog Specialist at Flipkart Internet Pvt. Ltd. from Dec 2011 - Jan 2014
Responsibilities:
- Maintain complete documentations for all product related activities.
- Prepare specifications of product and upload the catalogue on the live server.
- New products introduction with replacement of non-moving SKU.
- Create and maintain content for the Company's internal and external websites in SQL.
- Manage the gathering development and presentation of all assigned products category.
- Performed data entry from source document into computer-connected terminal