# Purnima Bhukya

**Data Scientist**

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GitHub | LinkedIn | Portfolio

## PROFESSIONAL SUMMARY

I'm a Data Scientist with 3+ years of industry experience, specializing in analytics, machine learning, and data visualization. Proficient in SQL, Python, and Tableau. Experienced in prompt engineering, developing large language models, and working on ML teams. Creative in transforming complex data into clear presentations and actional reports using powerful BI tools. Skilled in leading cross-functional teams and delivering impactful solutions in various domains such as finance, marketing, Healthcare, People Analytics.

## TECHNICAL SKILLS

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|---|---|
| Machine Learning/AI | Pytorch, TensorFlow, Neural Networks, LLM, Natural Language Processing (NLP), Generative AI, Supervised & Unsupervised Learning, Statistical Analysis, Predictive Modelling, Prompt Engineering |
| Analytical Skills | Tableau, MS Power BI (DAX, RLS), MS Excel (Pivot tables, VBA, Macros), Data Modelling, Data Visualization, Exploratory Data Analysis (Geo-Spatial, Sentimental) |
| Databases | MySQL, SQL Server, T-SQL |
| Tools | SSAS, SSRS, SSIS, API, Snowflake, Power Query, Git, Microsoft Office 365, Google Analytics |
| Cloud Technologies | AWS, Azure, Google Cloud Platform (Looker, Big query, google earth engine) |
| Languages | Python (NumPy, SciPy, Pandas, Matplotlib, Scikit-learn, Stats Models, Seaborn), R, SQL |
| Project Management | Agile, JIRA, SharePoint |
| Other Skills | Data Migration, Data Warehousing, Data Cleaning, Qualitative and Quantitative research |

## PROFESSIONAL EXPERIENCE

**Abbott Laboratories**  Alameda, CA
**Data Scientist**  May 2024 - Present

- Implemented a python-based model that creates datasets from the information been received via emails, PDFs, CSV files, IMAGES consolidating data into structured excel sheet.
- Developing Microsoft power automate flows which extracts and transform data from the consolidated excel sheet and generate Power BI paginated and standard reports using DAX calculations.
- Leading the team to implement a conversational based Chatbot for the supply planning team to interact with the manufacturers and make the planning for future terms.
- Leading the Generative AI series within the team, upskilling the team on prompt engineering, GPT Models.
- Creating a new Project Management tool to update the projects within the team using Agile Methodologies in SharePoint.

**Hexanika, Inc**  Little Rock, AR
**Data Scientist and Engineer Consultant**  Nov 2023 -May 2024

- Involved in a cross-functional team that explored the innovative application of AI, GPT, and LLM technologies in the finance sector, laying the groundwork for future-proofing our business strategies.
- Led the technical team to incorporate AI models via APIs into our products, this optimized our platform's analytical capabilities providing our clients with meaningful insights.
- Conducting comprehensive research on prompt engineering and compared various GPT (GPT 3.5, GPT 4, BARD, Co-Pilot) models for SQL querying, aimed at optimizing the financial operations.
- Implemented cutting-edge SSIS package to establish ETL pipelines, enabling the extraction of real-time banking data logs and database updates.
- Developed an efficient SQL query solution that reduced manual data entry tasks, resulting in a significant decrease in processing time from over 20 days to just 48 minutes, ultimately enhancing operational efficiency.
- Enhanced and optimized SQL Stored Procedures, resulting in efficient data manipulation and ensuring data integrity for critical financial data analyses.

**San Jose State University**                                    San Jose, CA
**Data Science Research Assistant**                        May 2022 - May 2023

- Collaborated with a team of 5 to analyze over 70+ research studies on EV charging optimization using real-time geospatial data and battery swapping techniques.
- Utilized advanced data collection methods, including GET API, to gather data and managed it effectively in Amazon AWS S3 and loaded it into Redshift.
- Developed interactive and dynamic Tableau dashboards, uncovering critical data insights, supporting the team in developing accurate machine learning models for energy load forecasting.
- Engaged in building machine learning models, including Time-Series Forecasting and Ensembled model (Regression, Decision Tree, XG Boost, Random Forest), achieving high accuracy in load prediction.
- Identified optimal locations for new EV stations using a data-driven recommender system (Clustering) with 85% precision, enhancing infrastructure placement with data-driven precision.
- Presented our teams analytical methods and findings to investors and at IEEE BDS 2023, showcasing the practical applications of our research in machine learning.

**San Jose State University**                                    San Jose, CA
**Deep Learning Teaching Assistant**                       Jan 2022 - May 2022

- Supervised lab sessions of diverse group of 50+ students in deep learning projects with both structured and unstructured data, achieving a success rate above 95% through attentive mentoring and technical guidance.
- Instructed junior students in advanced computational topics including TensorFlow, CNNs, Transformers, NLP, and GPT models, significantly boosting their technical proficiency.
- Organized weekly deep learning study groups and maintained a digital library of resources, which elevated student performance and facilitated ongoing learning beyond the classroom.

**Deloitte (Office of the US)**                               Hyderabad, India
**Data Analyst**                                             May 2020 - Aug 2021

- Led the enhancement of a Salesforce driven e-commerce platform for a leading US-based winery manufacturer, resulting in 25% increase in online sales through targeted data analytics.
- Managed and optimized the data migration process from Mainframe to Salesforce, ensuring high system efficiency and resolving critical performance issues through advanced data analysis techniques.
- Designed and deployed a data science solution to meet client needs, utilizing predictive analytics to forecast sales trends and customer behavior.
- Developed proficiency in data management, analysis, reporting, and visualization to provide actionable insights for business decisions.
- Build a KPI dashboard based on the comprehensive analysis of customer feedback data, enhancing the client's customer engagement strategies.
- Implemented python-based feature that improved subscription rates by 25% and reduced the checkout errors.
- Applied Agile methodologies for effective project management, ensuring timely updates and iterations within the project workflow, and demonstrated the impact of data-driven decisions through client-focused design presentations.

## EDUCATION

Master's in Data Analytics, San Jose State University, CA                    Aug 2021- May 2023
Bachelors in Computer Science, Osmania University, India                     Aug 2016- May 2020

**LinkedIn**: https://www.linkedin.com/in/purnima14b/          **GitHub** : https://github.com/PurnimaSJSU