

Pranati Kotra

Education

- **GITAM University, Visakhapatnam**, B.Tech CSE Core (2021 -2025) - CGPA 8.12
- **Narayana Junior College, Mumbai**, Maharashtra State Board [PCM] (Class XI & XII) (2019 -2021) - 91%
- **Lodha World School, Mumbai**, ICSE (Class X) (2017 -2019) - 85%

Experience

Data Engineering Trainee(Pre-Oboarding), Accenture, Remote

Nov 2025 - Mar 2026

- Built data pipelines using Databricks (Bronze Silver Gold architecture) as part of training, working with both batch and streaming data.
- Ingested & processed data using Auto Loader, applying transformations with PySpark and Spark SQL for analysis.
- Developed pipelines using Structured Streaming and batch processing, ensuring smooth and reliable data flow.
- Worked with Delta Lake for efficient data storage and performed SQL analysis with dashboards to generate insights in a data warehouse environment.

Software Interim Engineering Intern, Qualcomm, Bangalore

May 2024 - Jul 2024

- Designed Power BI dashboards, updating over 4,000 records weekly to maintain data accuracy.
- Designed a 13-page Power BI dashboard presentation after analyzing JIRA tickets, visualizing over 1000 raised tickets.
- Assessed ticket statuses, achieving a 90% resolution rate compared to almost none at the start of 2018.
- Presented findings and insights to senior management, improving decision-making speed. Utilized data visualization tools to highlight key metrics and trends, enhancing transparency and operational efficiency.

Data Analyst Lead Intern, Ozibook, Remote

Aug 2023 - Oct 2023

- Spearheaded a team of 10 to 15 interns, organized into 2-3 project teams, to analyze social media content and generate leads.
- Analyzed and summarized content using the OpenAI API on over 1,000 records, identifying high-performing content categories with the help of data analysis.
- Utilized Power BI to analyze summarized content and presented findings to the content creation team, resulting in a 20% increase in social media engagement.
- Successfully delivered 12 recurring projects on time, ensuring high-quality outcomes, using tools like Google Colab, Sheets, Excel, Python programming, and Power BI to streamline workflow and enhance data analysis.

Projects

- **Multi-Factor Authentication (Jul 2024):**
 - Implemented a multi-factor authentication system for secure bulk transactions, combining chaotic sequence-based secret key generation and biometric fingerprint matching.
 - Generated secret keys using chaotic sequences to enhance randomness, ensuring secure and unpredictable authentication processes.
 - Integrated biometric verification by dynamically selecting one of ten stored fingerprints based on chaotic sequence generated indices for robust user identity validation.
- **Fire Incident Monitoring & Analytics Pipeline (Nov 2025):**
 - Designed an end-to-end data pipeline for fire incident data to enable real-time monitoring and analytics.
 - Implemented real-time data ingestion using Databricks Auto Loader (cloudFiles) to process continuously arriving data.
 - Built streaming pipelines using PySpark Structured Streaming with checkpointing for fault tolerance.
 - Transformed and standardized raw data into Delta Lake tables, ensuring ACID compliance, scalability, and optimized storage.
 - Performed SQL-based analytics to identify high risk areas and incident patterns, supporting data-driven decision-making.

Certifications

- **Salesforce Launchpad Program (4-Course Set) | PWC | Jul 2024 | Salesforce, Java, RDBMS and Fundamentals of IT**

Skills

- **Languages:** Python, SQL
- **Data Engineering:** Databricks, PySpark, Delta Lake, Auto Loader, Structured Streaming
- **Libraries:** Pandas, Matplotlib, Seaborn
- **Tools:** Google Colab, Sheets, Excel, PowerBI, Tableau

Links

- **GitHub:** <https://github.com/PranatiKotra>
- **LinkedIn:** <https://www.linkedin.com/in/pranathi-kotra-221a04250>
- **Leetcode:** <https://leetcode.com/u/KotraPranathi/>