PRALAY BHATTACHARJEE

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SUMMARY

Operations & Analytics Analyst bridging enterprise systems and BI to improve execution, reporting cadence, and decision-making. Experienced building KPI reporting and automation in SQL + Power BI/Tableau and supporting IBM z/OS workflows (COBOL/JCL) with strong Java troubleshooting fundamentals. Known for owning ambiguous problems end-to-end—defining success metrics, aligning stakeholders, and delivering measurable improvements with clear, high-accountability communication.

EDUCATION

University of North Texas									**May 2026**
Bachelor of Science, Business Computer Information Systems (Major GPA: 3.87/4.0)
- **Achievements:** President's List: Summer 2024, Fall 2024, Spring 2025, Dean's: Summer 2023, Fall 2025, *3rd Math Olympiad*
- **Coursework:** Data and Business Analysis, Data Structure and Algorithm, Java, Python, COBOL, Z/OS, SQL, Tableau, Power BI

WORK EXPERIENCE

Teaching Assistant - Business Intelligence, Java & IBM Mainframe (z/OS, COBOL)			**May 2025 - Present**
Information Technology and Decision Sciences, University of North Texas
- Teaching and coaching 100+ students on Tableau, Power BI, and Amazon QuickSight by demonstrating dashboard builds, guiding KPI selection, and troubleshooting visualization/data issues; grading deliverables with actionable feedback, contributing to up to 33% improvement in course performance.
- Delivering structured tutoring and TA sessions for 120+ students, helping debug Java assignments and reinforcing OOP fundamentals while guiding COBOL, JCL, and IBM z/OS workflows using TN3270 and IBM ZXplore; providing targeted feedback contributing to up to an 11.5% increase in final grades through improved performance and extra-credit outcomes.

Web Content & Accessibility Analyst (Student Assistant + Intern)				**Jul 2024 - Aug 2025**
University Brand Strategy and Communication, University of North Texas
- Accessibility Project Analyst Intern (Summer 2025): Led an end-to-end accessibility remediation project independently for the College of Education, partnering directly with the Dean and senior stakeholders to prioritize fixes and execute updates. Increased user engagement by 200% and improved QA/accessibility scores from 55% to 90%+ by auditing and optimizing 2,600+ webpages using Siteimprove and CMS tools while ensuring accessibility compliance.
- Web Content Student Assistant (July 2024-August 2025): Maintained and enhanced 330+ UNT websites by resolving SEO and accessibility issues, improving content quality, and coordinating updates through regular stakeholder communication. Reduced content errors by 40% and improved responsiveness for site updates, supporting usability for 50,000+ users.

PROJECTS

Workforce Intelligence Platform (Python, SQL, BI) – CGI AIS SCLC 2026				**Dec 2025 - Present**
- Designing and building a scalable workforce intelligence platform by integrating large U.S. government datasets (Data.gov) and engineering Python workflows + SQL pipelines to convert labor/economic data into structured datasets and core KPIs.
- Developing interactive BI dashboards with forecasting and scenario-based "what-if" analysis to translate KPIs into executive-ready insights for a national CGI analytics competition.

ExtinguishAI: AI-Powered Drone Surveillance for Wildfire Prevention (Machine Learning, AI + IoT, Automation)		**Apr 2025**
- Designed a concept prototype of an AI-driven drone wildfire prevention system using ML/CV, LiDAR, thermal imaging, and Starlink-enabled telemetry; modeled improved detection and response coverage of 2.36M sq. mi. daily at lower cost vs traditional approaches.
- Engineered autonomous navigation, swarm coordination, and AI-based fire-retardant deployment; delivered an alert/control app, projecting up to $53.8B in annual damage prevention and earning finalist selection at the AIS SCLC national competition.

Southern Company - UA Innovate 2025: Telecom Workforce Management Dashboard (Power BI, Excel, SQL)		**Apr 2025**
- Built a fully automated Power BI dashboard using Power Query and DAX to analyze 1,200+ rows of raw work management data, enabling leadership to assess productivity, & workforce distribution across 5+ departments; reduced manual reporting effort by ~80%.
- Designed 12+ interactive visuals (KPIs, heatmaps, time-series charts) with scalable architecture for real-time insights, helping identify workload imbalances, optimize staffing, and evaluate backfill needs in the Change Management division.

TECHNICAL & SOFT SKILLS

- **Languages & Databases:** SQL, Python, Java, R; IBM z/OS (COBOL, JCL, VSAM, TSO, REXX)
- **BI and Data Tools:** Power BI (Service), Tableau, Amazon QuickSight (Q), Microsoft Excel (MOS)
- **Cloud / Platforms & Workflow:** AWS (S3, EC2, Redshift), Google Cloud Platform (GCP), Smartsheet
- **Expertise:** Data Analysis & Reporting, Business Metrics Development, Data Pipeline Design, SQL Querying & Data Extraction, Dashboard Creation, Report Automation, Stakeholder Communication, Data-Driven Decision Making, Design Thinking

CERTIFICATION

- IBM Z Xplore - Advanced Badge | 2025
- MS Excel Specialist Certification | 2024
- Google Data Analytics Professional Certificate | 2025
- AWS Cloud Computing Certifications and Training | 2025
- IBM Project Management | 2025
- AWS QuickSight for Business Analysts | 2025
- SAP S/4HANA | 2025
- Google Cloud Skills Boost | 2025

EXTRACURRICULAR

Association for Information Systems, University of North Texas | *Executive Officer*			**Aug 2024 - Present**
- Leading digital strategy and financial operations as Treasurer and Executive Officer, driving engagement for a 150+ member AIS chapter by organizing the College of Business' first-ever Google panel, building FAANG partnerships (Amazon/Meta in progress), and increasing fundraising by 250%+ to date with $3,000 committed and a $5,000 goal pending department approval.

Wakeboarding Team, University of North Texas | *Member*					**Aug 2021 - Aug 2023**
- Competed with the UNT Wakeboarding Team in intercollegiate events, demonstrating discipline, teamwork, and performance under pressure.