PRALAY BHATTACHARJEE

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EDUCATION

University of North Texas *Major GPA: 3.86 / 4.0*
Bachelor of Science in Business Computer Information Systems *Expected Graduation: December 2025*
- **Relevant Courses**: Data and Business Analysis, Object Oriented Programming, Business Statistics with Spreadsheets, SQL
- **Awards**: Dean's Excellence Award, President's List: Summer 2024, Fall 2024, Spring 2025, Dean's List: Summer 2023
- **Certifications**: IBM Z Xplore – Advanced Badge, IBM Project Management, MS Excel Specialist, AWS QuickSight for Business Analysts, Google Data Analytics Professional Certificate, SAP S/4HANA, AWS Cloud Computing

EXPERIENCE

Information Technology and Decision Sciences, University of North Texas *Denton, Texas*
Instructional Assistant – Data Visualization & Programming *(highlights Tableau/Power BI + Java and Mainframe)* *May 2025 - Present*
- **BCIS 3610 (August 2025 - Present):** Guiding the development of data visualization dashboards for 100+ students in Tableau, Power BI, and Amazon QuickSight, focusing on KPI design and actionable insights; collaborating with diverse learners to clarify requirements and interpret data, enabling them to achieve up to 33% of their course grade through data-driven deliverables.
- **BCIS 3630 (May 2025 - Present):** Leading academic support for 120+ students in Introduction to Object-Oriented Programming by aligning tutoring and grading with course objectives, facilitating hands-on learning in Java and IBM Mainframe tools (TN3270, ZXplore), and providing targeted feedback—enabling students to earn up to 11.5% extra credit to boost final grades.

University Brand Strategy and Communication, University of North Texas *Denton, Texas*
UX (Web Content) Designer and Accessibility Project Analyst + Summer Intern *July 2024 – August 2025*
- *Accessibility Project Analyst Intern (Summer 2025):* Auditing and optimizing 2,600+ College of Education webpages using Siteimprove and CMS tools, improving QA and accessibility scores from 55% to 90%+ and increasing user engagement by 200% within 3 months.
- **Web Content Student Assistant (July 2024–August 2025):** Maintaining and improving 330+ UNT websites by resolving SEO and accessibility issues, managing stakeholder communications, and enhancing usability for 50,000+ users, resulting in a 40% reduction in content errors and faster decision-making for site updates.

TECHNICAL & SOFT SKILLS

Languages & Databases: Python, Java, SQL, R Programming, CSS, HTML, IBM z/OS, REXX, TSO, COBOL, JCL, VSAM, ASP, C#
Tools & Technologies: Tableau, Power BI Service, Amazon QuickSight (Q), AWS S3, AWS EC2, Redshift, SAP S/4HANA, Smartsheet, Modern Campus CMS, Drupal, API Integration (e.g., Google Analytics, Google Sheets), Google Cloud Platform (GCP), Microsoft Excel Specialist Certified
Expertise: Data Analysis & Reporting, Business Metrics Development, Data Pipeline Design, Report Automation, Natural Language Querying (QuickSight Q), Dashboard Creation, Stakeholder Communication, SQL Querying & Data Extraction, Data-Driven Decision Making

PROJECTS

ExtinguishAI: AI-Powered Drone Surveillance for Wildfire Prevention (*Machine Learning, AI + IoT, Automation*) *April 2025*
- Developed a scalable, AI-driven drone surveillance system that autonomously detects and suppresses wildfires using machine learning, computer vision, LiDAR, thermal imaging, and Starlink-powered real-time data; reduced false alarms and response delays while covering 2.36M sq. mi. daily at a fraction of traditional costs.
- Engineered autonomous navigation, swarm coordination, & AI-based fire-retardant deployment; delivered an app for real-time alerts and control, projecting up to $53.8B in annual damage prevention & earning finalist selection at the AIS SCLC national competition.

Southern Company – UA Innovate 2025: Telecom Workforce Management Dashboard (*Power BI, Excel, SQL)* *April 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.

Sales and Profit by Product Dashboard (Tableau, QuickSight, Excel) *August 2024 - December 2024*
- Analyzed sales and profit data from the Superstore dataset to identify underperforming regions and product categories; built 4 Tableau worksheets and 1 dashboard using advanced filters, hierarchies, and KPIs, which revealed key profitability insights across 10 U.S. states.
- Faced with the challenge of making complex data accessible to non-technical users; designed a user-friendly dashboard integrating geospatial maps and dynamic visuals, enhancing stakeholder understanding and enabling more informed business decisions.

LEADERSHIP & COMMUNITY INVOLVEMENT

Executive Officer, Association for Information Systems, University of North Texas August 2024 – Present
- Leading digital strategy and web operations as part of the AIS Executive Board, helping a 150+ member student organization grow by creating opportunities for peers to strengthen their resumes, build career profiles, and connect with Fortune 500 companies.

Member, Wakeboarding Team, University of North Texas August 2021 – August 2023