

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, **Java**, Data Structure and Algorithm, **COBOL**, **Mainframe**, Business Statistics, **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

WORK EXPERIENCE

Information Technology and Decision Sciences, University of North Texas

Denton, Texas

Teaching/Instructional Assistant – Data Visualization & Programming (Tableau, Power BI, Java and Mainframe)

May 2025 - Present

- **BCIS 3610 – Data Visualization (August 2025 - Present):** Accomplish impactful data-driven learning outcomes for 100+ students, as measured by up to **33% improvement in course performance**, by guiding the development of Tableau, Power BI, and Amazon QuickSight dashboards, focusing on KPI design, actionable insights, and collaborative requirement clarification.
- **BCIS 3630 - OOP (May 2025 - Present):** Accomplish improved student performance for 120+ learners, as measured by up to **11.5% boosts in final grades through extra credit**, by leading academic support in Introduction to Java, aligning tutoring and grading with course objectives, facilitating hands-on learning in Java and IBM Mainframe tools (TN3270, ZXplore), and providing targeted feedback.

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):** Accomplished a 200% increase in user engagement and boosted QA and accessibility scores from 55% to 90%+, by auditing and optimizing 2,600+ College of Education webpages using Siteimprove and CMS tools.
- **Web Content Student Assistant (July 2024–August 2025):** Accomplished a 40% reduction in content errors and accelerated decision-making for site updates, as measured by improved site quality and responsiveness, by maintaining and enhancing 330+ UNT websites, resolving SEO and accessibility issues, managing stakeholder communications, and improving usability for 50,000+ users.

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

- Lead digital strategy and financial operations as Treasurer and Executive Officer, enhancing technical initiatives and driving engagement for a 150+ member AIS chapter through professional development and corporate partnerships.

Member, Wakeboarding Team, University of North Texas

August 2021 – August 2023