

# DIWAS PURI

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## Duke University

Durham, NC, USA

### SUMMARY

Experienced industry professional with **8 years of hands-on experience** in data science, business intelligence, and digital transformation. Currently, pursuing **MS in Interdisciplinary Data Science at Duke University** while bringing expertise from directing enterprise-scale technology initiatives. Skilled in Python, SQL, machine learning, and translating data insights into business strategies. Seeking **summer 2026 data science internship** to apply technical and business skills to impactful challenges.

### EXPERIENCE

#### Strategy Officer & Digital Transformation Lead

Bhutan National Bank

September 2017 – August 2025

Thimphu, Bhutan

- Led cross-functional team to pilot **credit risk propensity model** leveraging logistic regression and ensemble methods, managing full data lifecycle of **100,000+ records**.
- Orchestrated **predictive analytics implementation** for **BNB MPay platform**, analyzing user engagement metrics to drive growth to **130,000+ active users** (1 in 6 citizens) within 18 months.
- Automated **manual customer statement generation process** through **RPA implementation** with Python scripts and Oracle database integration, eliminating 2-day manual workflow and achieving real-time delivery.
- Constructed and deployed **customer segmentation model** through RFM analysis and K-means clustering, improving marketing data accuracy from 28% to 99%.
- Engineered and deployed customer service desk system, reducing median first-response time from 6 hours to 0.5 hours and improving NPS by 10 points.
- Co-authored **BNB 2025 Corporate Strategy** defining digital transformation roadmap; launched quarterly **BI dashboards** for executive tracking.
- Spearheaded development of bank's first full-stack website with WordPress, increasing online engagement by 340%.

#### Business Intelligence Consultant

Best of Bhutan Tours

January 2025 – July 2025

Thimphu, Bhutan

- Formulated **data-driven SEO and dynamic pricing strategies** via competitive analysis and market segmentation, increasing margins **23% above industry average**.
- Delivered integrated **BI dashboards** in Power BI to consolidate bookings, customer, and sales data resulting in **40% reduction** in reporting time and improved decision-making speed.

#### Software QA & Integration Intern

Levco Tech Inc.

May 2015 – August 2015

Norwalk, CT

- Integrated legacy systems with web-based platforms by creating **RESTful APIs**, reducing manual processing by 40%.
- Established **automated backup system** employing Python and Cron jobs to ensure daily data synchronization, achieving **99.9% reliability** and eliminating manual errors.
- Optimized **3M+ record database** through SQL query tuning and indexing, improving performance by 50%.

## PROJECTS

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### Stock Sentiment Analysis Research & Trading Platforms

- Published honors' thesis analyzing **Twitter sentiment** and stock prices by applying VADER, NLP, and regression analysis [[link](#)]
- Built **StockSim**: real-time stock market simulator in JavaScript [[link](#)]
- Engineered **QuantBack**: interactive quantitative pair-trading backtester with TradingMRI API and Python [[link](#)]

### Dzongkha Language NLP Application

October 2015 – October 2025

- Pioneered first accessible Dzongkha dictionary app leveraging **NLP and Flutter**, achieving **200,000+ downloads** with 4.6-star rating [[link](#)]
- Designed Chrome extensions for Dzongkha translation and Canva SVG import with integrated **payment processing** [[link](#)]

### AI-Powered Recruitment Platform

January 2024 – May 2024

*Bhutan National Bank*

- Architected career portal implementing **Django and NLP-based resume parsing**, processing **20,000+ applications annually** with automated candidate ranking [[link](#)]

## EDUCATION

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### Master of Science in Interdisciplinary Data Science

September 2025 – May 2027

*Duke University, Durham, NC*

GPA: 4.0/4.0 | Minor: Statistics | Full Scholarship

### Bachelor of Science (Honors), Actuarial Science

September 2013 – May 2017

*Bryant University, Smithfield, RI*

GPA: 3.85/4.0 | Minor: CIS

*Actuarial Club, Model UN Secretary, Trustee Scholarship (\$22,000/year)*

## AWARDS & HONORS

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Top Performing Employee, Bhutan National Bank

2023

**Fulbright Scholar, U.S. Department of State**

2013 – 2017

National Examination Second Top Scorer in STEM, Bhutan Board Examinations

2012

Best Student of the Year (3 consecutive years), Gelephu Higher Secondary School

2010 – 2012

**National Examination Top Scorer – Ranked #1 in Bhutan, Bhutan Board Examinations**

2010

## SKILLS

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**Data Science** Machine Learning, NLP, Predictive Modeling, Statistical Analysis, Time Series Forecasting

**Programming** Python (Pandas, NumPy, Scikit-learn, PyTorch), R, SQL, Bash, Git, Jupyter

**Data Engineering** ETL Pipelines, AWS, Airflow, Data Modeling, Feature Engineering

**Visualization** Power BI, Tableau, Excel, Dashboard Development

**Databases** MySQL, PostgreSQL, Oracle, SQL Server

**Cloud & DevOps** AWS, Cloudflare, Digital Ocean, CI/CD, REST APIs, Model Deployment

**Web Development** Django, Flask, JavaScript, HTML/CSS, GIS Mapping, Geospatial Analytics. ArcGIS, QGIS

**Business** Agile, Product Management, Business Analytics, Digital Transformation