# VISHAL CHETTRI

Address: Thimphu, Bhutan
Phone number: 17548947
Email: chettrivishal677@gmail.com
Social media: LinkedIn

## PROFESSIONAL SUMMARY

Results-driven Data Analyst with expertise in Python, SQL, Machine Learning, and Business Intelligence, specializing in transforming complex data into actionable insights. Proven track record in predictive modeling, ETL pipelines, and data visualization (Power BI) to drive data informed strategies. Adept at developing AI-powered solutions to optimize operational efficiency and support decision-making. Combines technical proficiency with strong analytical thinking to deliver scalable, data-driven results.

## TECHNICAL SKILLS

- **Programming & Analytics**: Python (Pandas, NumPy, Scikit-learn), SQL, MySQL
- **Machine Learning**: Regression, NLP, Hypothesis Testing, Predictive Modeling
- **Data Visualization**: Power BI, Excel (PivotTables, VLOOKUP)
- **Tools**: GitHub, Firebase, AWS, OCR (PyMuPDF)
- **Web Development**: HTML, CSS, JavaScript
- **Creative & Design Tools**: Canva, Adobe Lightroom, Adobe Rush

## SOFT SKILLS

- Analytical Thinking
- Effective Communication
- Cross-functional Collaboration
- Attention to Detail
- Team Player

## EDUCATION

1. **Bachelor of Computer Application (Data Science)**
   Maharishi Markandeshwar (Deemed to be University) | GPA: 7.7 | *Present*

2. **High School**
   Drametse Central School | GPA: 59%

## EXPERIENCE/PROJECTS

1. **Leveraging AI to Improve Mental Health and Well-being** | GovTech Bhutan & Omdena Collaboration | May 2025 – June 2025

- Led the development of an **AI-powered mental health assistant** as part of a collaboration between GovTech Bhutan and Omdena.
- Conducted extensive research and collected diverse mental health datasets from **Kaggle** and **Zenodo** for model training and validation.
- Fine-tuned state-of-the-art **transformer models** (MentalBERT, MentalRoBERTa) for nuanced emotion detection and mental health condition classification.
- Applied advanced **data preprocessing** techniques including cleaning, standardization, and normalization, essential for model accuracy.
- Implemented rigorous **model evaluation** methodologies, leveraging classification reports and performance analysis to ensure reliability.
- Prototyped and deployed **a real-time AI mental health support system**, focusing on **personalized recommendations** for user well-being.

2. **Agricultural & Livestock Data Dashboard** | Personal Project | May 2025 – June 2025

- Developed a fully interactive **Power BI dashboard** to visualize agriculture and livestock survey data, enabling insights by dzongkhag, gewog, and household demographics.
- Integrated large-scale survey datasets from **Excel and SQL** sources, applying data cleaning, transformation, and validation for accuracy and consistency.
- Visualized key indicators such as land use, livestock population, crop production, and household participation using **KPIs, bar/line charts, and slicers**.
- Implemented map visualizations and filters to enable region-wise analysis and trend monitoring — supporting evidence-based decisions by policymakers.
- Collaborated virtually with domain experts to ensure the dashboard's usability, accessibility, and alignment with national data reporting needs.
- Designed the dashboard with user-centric features, including dynamic search filters, download-ready visuals, and multilingual data labels for inclusivity.

3. **Smart Resume Analyzer** | Final Year Collage Project | Jan 2025 – April 2025

- Built AI-powered tool with **Gemini AI** for ATS scoring, improving parsing accuracy by **35%**.
- Automated text extraction (PyMuPDF, OCR) and integrated **Firebase/AWS** for cloud storage.
- Implemented grammar and formatting checks using **LanguageTool API** to enhance resume quality scoring.
- Extracted key resume sections (skills, experience, education) and matched them with job descriptions using NLP techniques.
- Designed an interactive **Streamlit** UI for real-time feedback, scoring visualization, and resume uploads.

- Stored parsed data, AI scores, and user inputs in a **MySQL** database for tracking and analysis.

**4. Customer Churn Prediction Model** | Bharat Intern | Aug 2024 – Dec 2024

- Achieved **80% accuracy** using Scikit-learn; reduced churn rate by **12%** via Power BI insights.
- Preprocessed data with techniques like handling missing values, encoding categorical variables, and feature scaling.
- Engineered key features such as customer tenure, usage patterns, and support interaction metrics.
- Trained and evaluated multiple models (Logistic Regression, Random Forest, XGBoost) to identify the best-performing algorithm.
- Integrated Power BI dashboards for real-time visualization of churn trends, customer segments, and predictive insights.
- Deployed the model with automated alerts to flag high-risk customers for proactive retention strategies.

**5. Sales Forecasting Dashboard (Power Bi)** | Semester Project | May 2024 – July 2024

- Collected and cleaned historical sales data to identify seasonal trends and demand patterns.
- Applied **ARIMA time-series analysis**, boosting prediction accuracy by **15%**.
- Built interactive Power BI dashboards with slicers, KPIs, and custom visuals for dynamic sales insights.
- Integrated DAX measures to calculate year-over-year growth, moving averages, and sales variance.
- Automated data refresh and reporting for real-time business intelligence updates.
- Presented actionable insights to improve inventory planning and sales strategy decisions.

**6. Sentiment Analysis (NLTK, TextBlob)** | YBI Foundation | Oct 2023 – Nov 2023 •

Scraped & analyzed **1,000+ tweets** with **80% sentiment classification accuracy**.

- Preprocessed text data by removing noise, stopwords, punctuation, and performing tokenization.
- Used NLTK and TextBlob for polarity and subjectivity scoring to classify sentiment (positive, negative, neutral).
- Visualized sentiment distribution using Matplotlib and Seaborn for better interpretability.
- Conducted keyword frequency and hashtag analysis to understand trending topics.

## INTERNSHIPS

**1. Data Science Content Writer** | Earth5R (*Remote*) | May 2024 – Jul 2024

- Authored **5+ data-driven articles** using Python visualizations, increasing engagement by **15%**.
- Manage content calendar and meet deadlines for data science topics.

- Collaborated with data teams to translate insights into accessible articles and reports.

**2. Data Scientist Intern** | Bharat Intern (*Remote*) | Jan 2024 – May 2024
- Developed ML models (**80% accuracy**) and Tableau dashboards for business analytics.
- Created visualizations and reports to communicate findings effectively.
- Collaborated on real-world projects involving classification and regression tasks.

**3. ML Intern** | YBI Foundation (*Remote*) | Oct 2023 – Nov 2023
- Processed large datasets for predictive modeling and trend analysis.
- Performed data cleaning, analysis, and visualization to support model building
- Documented project workflow and presented outcomes to mentors and peers.

---

## CERTIFICATIONS

- Google Data Analytics
- IBM Python for Data Science
- edX Machine Learning (Harvard)
- Microsoft Excel (Data Analysis)
- Power BI Visualization
- Accenture SWE Simulation

---

## LANGUAGES

- English (Fluent)
- Hindi (Fluent)
- Dzongkha (Native)
- Nepali (Fluent)
- Tshangla (Fluent)