# Risheek *Bajaj*

## Contact

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DOB: 25 February 2000
Gender: Male

## Professional Summary

Results-driven Data Scientist with nearly 2 years of experience transforming complex datasets into impactful business insights and AI-driven solutions. Proficient in data preprocessing, statistical modeling, machine learning, and visualization using Python, SQL, Power BI, and Excel. Demonstrated expertise in segmentation, A/B testing, dimensionality reduction (PCA), and time-series forecasting (ARMA/GARCH). Skilled in building, evaluating, and optimizing deep learning models (CNNs, GANs) and deploying prototypes. Combines strong analytical thinking, problem-solving, and effective communication to deliver data-powered innovation and business growth.

## Technical Skills

**Programming & Data:** Python (pandas, NumPy, scikit-learn), SQL, Excel (pivot tables, macros)
**BI & Visualization:** Tableau, Power BI, Matplotlib, Seaborn, Plotly, Dash
**Data Engineering:** ETL pipelines, API integration, MongoDB, Hadoop
**Analytics & Modeling:** Predictive modeling, regression, clustering, A/B testing, PCA, time-series (ARMA/GARCH)
**AI & Deep Learning:** PyTorch, TensorFlow, CNNs, OpenCV, YOLO, GANs
**Deployment & DevOps:** Flask, Streamlit, Git/GitHub
**Soft Skills:** Critical thinking, problem-solving, data storytelling, ethical AI awareness

## Work Experience

**Kritko | April 2024 - July 2025**

Data Analyst

- Designed and delivered interactive dashboards and data models using Python, Power BI, and Excel.
- Performed predictive analysis and trend forecasting to support academic and business decision-making.
- Created tailored reports and visualizations based on client-specific objectives and KPIs.
- Collaborated with stakeholders to define metrics and build data-driven strategies.
- Maintained data accuracy through rigorous cleaning, preprocessing, and validation techniques.

**Wunderman Thompson Studios | Jul 2023 - Dec 2023**

Analyst

- Analyzed email marketing performance using Marketo and Salesforce, delivering data-driven insights to boost engagement.
- Dynamic dashboards in Power BI and Salesforce Analytics to track KPIs and visualize ROI.
- Conducted A/B testing to optimize campaign content, layout, and delivery timing for higher conversion rates.
- Segmented audiences for targeted and personalized campaigns.
- Supported teams in aligning email analytics with business goals.

## Certification

- "Cloud Computing" & "Introduction to Database Systems" course by NPTEL.
- "Data Processing and Visualisation" course by NASSCOM (POWER BI)
- Empowering the Visually Impaired: A Sustainable ML- Based Currency Recognition System" Published in Sustainable Development through Machine Learning, AI and IoT, Springer
- Presented my project during the NAAC and NBA visit at Vivekananda Institute of Professional Studies demonstrating my commitment to academic excellence and impactful communication
- "An Advanced Health Monitoring System for Predicting and Evaluating Individual Well-being" Published in Sustainable Development through Machine Learning, AI and IoT, Springer

LinkedIN   Workfolio   GitHub

# Education

**Diploma in AI Lab | Aug 2025 - Present**
Worldquant University
- Cleaned and preprocessed visual datasets using Python, OpenCV, NumPy, and Pandas to tackle real-world image challenges in wildlife, agriculture, and medical domains
- Designed and trained advanced computer-vision models—from custom CNNs and transfer learning to object detection (traffic in Dhaka) and face recognition (using MTCNN/Inception-ResNet)
- Implemented generative AI pipelines (GANs, Stable Diffusion) and deployed interactive apps (e.g., meme generator, medical image synthesis) with PyTorch, Streamlit, and Flask

**Diploma in Applied Data Science Lab | Mar 2025 - Jun 2025**
Worldquant University
- Wrangled and preprocessed real-world datasets—from CSV/JSON, SQL (SQLite), NoSQL (MongoDB), and web APIs—using Python to prepare for analysis
- Built predictive and time-series models, including regression, classification (decision trees, random forests), ARMA, and GARCH, and ran A/B tests with chi-square methods
- Created end-to-end ETL pipelines, interactive dashboards (Plotly Dash), and PCA-powered visualizations to streamline workflows and communicate insights to non-technical stakeholders

**Master of Computer Application (MCA) | Aug 2021 - Sep 2023**
Vivekananda Institute of Professional Studies, GGSIPU | CGPA: 9.5/10
- Mastered core computer science foundations, including data structures, algorithms, advanced programming (C++, Java, Python), DBMS, software engineering, and operating systems
- Developed expertise in data analytics, machine learning, AI/ML, and full software development, supported by hands-on labs, real-world projects, and workshops across cloud, web, mobile, cybersecurity, and big data technologies .
- Led and executed capstone projects and internships, applying theoretical knowledge to problem-solving, while honing teamwork, research, and presentation skills through group activities, case studies, and NAAC coordination

**Bachelors's in Computer Application (BCA) | Aug 2018 - Sep 2021**
Trinity Institute of Professional Studies, GGSIPU | CGPA: 8.7/10
- Built strong foundations in OOP (C++, Java), DBMS (SQL/MySQL), and web development (HTML, CSS, JavaScript, PHP) through structured coursework and lab work
- Practiced data handling, basic Python scripting, MS Excel analytics, statistics, and logic-building to support data-driven thinking.
- Collaborated on real-world academic group projects, simulating end-to-end tech solutions and reinforcing teamwork and practical application skills .

# Projects

**Stroke Risk Prediction | Python , Machine Learning**
- Developed a machine learning prototype to predict stroke risk using SMOTE for class imbalance and compared Random Forest and Logistic Regression models for accurate health-based predictions

**Personal Financial Analysis | Python, Power BI, Excel**
- Developed interactive Power BI dashboards to track spending, budgeting, and savings. Analyzed and cleaned financial data in Excel, visualizing key insights to enhance income and expense tracking.

**Attendance Monitoring System Using Face Recognition | Python, OpenCV, tkinter**
- Built a real-time, contactless attendance system using OpenCV for face detection and recognition with automated logging to a local database.

**Air Quality Analysis in Nairobi | Python, MongoDB, Statsmodels**
- Built an ARMA time-series model to forecast air pollution using MongoDB+PyMongo for data extraction and cleaning, and optimized performance through hyperparameter tuning.

**Currency Recognition System | TensorFlow Lite, Android Studio**
- Built an Android app to help visually impaired users identify Indian currency using an on-device TensorFlow Lite model with real-time recognition and text-to-speech feedback.

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