Toshima Jaiswal

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Professional Summary

An aspiring Data Analyst with a strong foundation in data analysis, visualization, and problem-solving, skilled in Python, SQL, Excel, and Power BI. Detail-oriented and collaborative, with a passion for tackling complex problems and generating actionable insights from real-world datasets in fast-paced, data-driven environments.

Technical Skills

- **Data Visualization:** Power BI, Seaborn, Matplotlib.
- **Data Analysis:** Python (NumPy, Pandas), Excel (Pivot tables, Charts, Formulas), EDA.
- **Database Management:** SQL, MongoDB.
- **Programming Languages:** Python, R, Java.
- **Machine Learning:** Supervised Learning, Unsupervised Learning, Model Evaluation, Feature Engineering.
- **Statistical Analysis:** Hypothesis Testing, Time Series Analysis, Regression Analysis, Probability.
- **Tools & Platforms:** PowerBI, Excel, Jupyter Notebook, VS Code, Git.

Education

- **CHRIST (Deemed to be University)** (2024 – 2026)
  M.Sc in Data Science | Ongoing
- **The Heritage College** (2020 – 2023)
  B.Sc (Hons.) in Economics | SGPA: 7.78
- **St. Teresa's Secondary School (ISC)** (2020)
  Percentage: 90.5%
- **St. Teresa's Secondary School (ICSE)** (2018)
  Percentage: 87.2%

Work Experience

- **NLP Intern – Bengali Tokenizer Development** (Apr 2025 – Aug 2025)
  Indian Statistical Institute, Kolkata
  Developed a Bengali tokenizer using Byte Pair Encoding (BPE) after web scraping and preprocessing literary and blog content.
- **Research Intern – QA Evaluation Metric Design** (Apr 2025 – Jun 2025)
  Central University of Tamil Nadu
  Developed a novel evaluation metric for QA systems using Genetic Algorithm and Grey Wolf Optimizer to enhance NLP accuracy.

Projects

- **Insurance Premium Prediction**
  Predicted individual health insurance costs using supervised ML models (Linear, Ridge, Lasso) on demographic and health-related features. Enabled personalized premium estimation through EDA, preprocessing, and model evaluation.
- **Brain Tumour Classification**
  Developed a CNN using Keras and TensorFlow to classify brain MRI scans into tumor types or tumor-free. Applied image preprocessing and augmentation to improve model accuracy and diagnostic performance.
- **Multi-Label Hate Speech & Emotion Detection**
  Built a text classification model to detect overlapping categories like emotions, hate speech, and violence using SVM and Logistic Regression. Addressed multi-label and class imbalance challenges using NLP techniques.

Certifications

- Power BI for Beginners – SimpliLearn (SkillUP)
- Machine Learning Using Python – SimpliLearn (SkillUP)
- Introduction to Artificial Intelligence – Infosys Springboard

Achievements

- 1st Prize – Statistical Game Show, Tilasto'25 (National Level Inter-College Fest)
- 2nd Prize – Treasure Hunt, Expectations'24
- 1st Prize – Inter-department Women's Cricket Tournament

Soft Skills

Critical Thinking, Problem Solving, Communication, Diligence, Teamwork

Interests

Badminton, Cricket, Volleyball, Drawing, Sketching, Dancing

Languages Known

English, Hindi, Bengali