Surabhi Pandey

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B.Sc. Hons. in Data Science and Artificial Intelligence
Indian Institute Of Technology, Guwahati

Github | Website
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Education

Degree/Certificate	Institute/Board	CGPA/Percentage	Year
B.Sc Hons.	Indian Institute of Technology, Guwahati	6.5 (Current)	2024-Present
Senior Secondary	CBSE Board	89.0%	2021
Secondary	CBSE Board	91.0%	2019

Projects

- **Stats Courtroom: Hypothesis Testing App** *2025*
  Personal Project WebSite
  – Developed an app for statistical testing (chi-square, t-test, correlation) with auto-generated reports.
  – Enabled CSV upload and inline HTML output for user-friendly interaction.

- **OCD Patient Data Visualization and Y-BOCS test** *2025*
  Personal Project Website
  – Built a static web app for Y-BOCS score testing and EDA of OCD patient datasets using matplotlib and seaborn.
  – Visualized obsession/compulsion patterns, comorbidities, and symptom severity distributions.

- **Animal Image Classification** *2024*
  Personal Project
  – Trained a TensorFlow-based deep learning model using transfer learning (MobileNet) to classify animal images.
  – Applied data augmentation and performance tuning to enhance model generalization.

- **Time Series Forecasting** *2024*
  Self-driven Project
  – Forecasted temporal trends using ARIMA and Prophet models on real-world datasets.
  – Compared model accuracy using cross-validation and diagnostic metrics.

- **Mental Health Analysis** *2024*
  Self-driven Project
  – Built ML classifiers to predict mental health conditions from survey data.
  – Evaluated models with accuracy, F1-score and Accuracy score.

Key courses taken

- **Mathematics**: Linear Algebra, Basic Calculus, Optimization, Probability & Statistics
- **Core Courses**: Data Structure and Algorithm, Data Sciences & Data Visualization, Artificial Intelligence, RDBMS, Time Series Analysis

Technical Skills

- **Languages**: Python, R, SQL
- **Libraries/Frameworks**: Scikit-learn, TensorFlow, Pandas, NumPy, Matplotlib, Seaborn
- **Concepts**: Supervised/Unsupervised Learning, Time Series Forecasting, Model Evaluation
- **Tools**: Jupyter, Google Colab, GitHub, VS Code

Soft Skills

- **Communication**: Clear articulation of technical ideas in writing and speech
- **Analytical Thinking**: Strong problem-solving through data-driven approaches
- **Collaboration**: Experience working in team-based projects and hackathons
- **Creativity**: Built innovative apps for statistical testing and mental health
- **Time Management**: Handled multiple self-driven projects

Languages Spoken

- **English**: Fluent
- **Hindi**: Fluent