BAIBHAV BITTU TIWARI

ACADEMIC PROFILE

Degree/Certificate	Institution	Percentage/CGPA	Year
IDD	Architecture Planning and Design IIT (BHU), Varanasi	7.91	2026
SBTE, Bihar (XII)	Government Polytechnic, Patna-7	75.77	2019
BSEB (X)	Rastriya High School Dilian, Dehri	79.20	2016

SKILLS

Languages : Python, JavaScript
Tools/Frameworks : Matplotlib, Seaborn, Plotly, NumPy, Pandas, HTML, CSS, Requests, Beautiful Soup, Selenium, Playwright, Scrapy, Scikit-learn, TensorFlow, Keras, Prophet, ARIMA, ARCH/GARCH, ANN, LSTM, Prompt Engineering
Interests : Data Science, Machine Learning, Web Scraping, Time Series, Quant Trading

PROJECTS

Delhi Temperature Analysis and Forecasting with Bidirectional LSTM

- Performed **time-series analysis** on 4-year temperature data of Delhi, focusing on **stationarity and seasonality**.
- Implemented **Bidirectional LSTM** neural networks with cyclical features to forecast daily temperatures for **3 months**.
- Utilized early stopping and normalization, achieving an **MSE** of 2.9 and **R^2 score** of **0.92**.
- **Exposure:** Time-Series Analysis, Bidirectional LSTM, Neural Networks, Climate Forecasting, Statistical Analysis

Past24.live Newsletter Automation

- Implemented a system to fetch **real-time Google trending** searches from different countries using RSS feeds.
- Scraped and cleaned data, applied **cosine similarity** to extract relevant news snippets and **Jinja2** for email template.
- Integrated Gemini API with few-shot training for **natural language processing** to generate concise news summaries.
- Designed a pipeline to schedule **automatically email** summarized news updates to subscribers using API.
- **Exposure:** Gen AI, Natural Language Processing, Web Scraping, API Integration, Jinja2 Templating, Automation

Crypto Trading Strategy for InterIIT Tech Meet

- Applied statistical techniques using **15+ technical indicators** (SMA, EMA, RSI, MACD) for signal extraction.
- Developed and fine-tuned a **Random Forest** Classification model to identify breakout and breakdown patterns.
- Achieved **82% accuracy** , demonstrating robust model performance.
- Implemented **risk management** by minimizing holding time and using parameter tuning to optimize trading outcomes.
- **Exposure** : Python, Machine Learning, Random Forest, Technical Indicators, Data Visualization, Figma, Backtesting.

POSITION OF RESPONSIBILITY

Co-Head, BASH 6.0, Business Club | IIT BHU
Dec '23 - Apr '24

- Co-led 6th edition of BASH, an **international event** organized by the Business Club IIT BHU, which had **2500+** participants from 6+ countries.
- Organized and managed **6** diverse business-related **competitions and workshops** in product development and finance to consulting, marketing, and analytics, achieving a prize pool of **220k INR**.

Senior Core Team Member, Business Club | IIT BHU
Aug '23 - Present

- Led and mentored **30+ junior members** and **100+** first-year students, enhancing their skills and engagement.
- Collaborated with **50+ members** to organize high-impact finance competitions for freshers and conducted **brainstorming sessions** in finance and analytics.

HONOURS AND ACHIEVEMENTS

- Represented IIT BHU at **Inter IIT Tech Meet 12.0** in the Mid-Prep competetion of **Crypto Trading Challenge**, securing 10th place among ~20 teams from different IITs.
- Secured **2nd** place **among 400+ teams** at Synergy 23, an esteemed event organized by VGSoM, IIT Kharagpur, in Feb 2023.

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