

BALJINDER SINGH

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EDUCATION

GURU GOBIND SINGH INDRAPRASTHA UNIVERSITY <i>Bachelor of Technology, Major in Computer Science (CGPA-8.47)</i>	Delhi, India 2021-2025
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EXPERIENCE

AI/ML Intern Jan, 2025 - Present <i>Defence Research and Development Organisation (DRDO)</i>	Delhi, India Onsite
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- Focusing on the practical applications of **Generative AI** to advance defense technologies and solutions.
- Researching and implementing **synthetic data generation, simulation of complex defense scenarios, and secure communication** using advanced natural language processing.
- Contributing to DRDO's mission by applying Artificial Intelligence to address critical challenges in defense and innovation.

AI/ML Intern Sep, 2024 - Dec, 2024 <i>Central Research Lab, Bharat Electronics Limited (BEL)</i>	U.P., India Onsite
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- Analyzed **large-scale datasets** (20+ crore entries) within the **SUPER SCADA system**, ensuring **data quality** for optimal model training, leading to improved **model accuracy** and **operational efficiency**.
- Engineered **predictive models** with **85%+ accuracy** and implemented a **data pipeline** for the **SUPER SCADA system**, achieving **81% forecasting accuracy** with N-BEATS and optimizing **data flow** to **Grafana** via **RabbitMQ**, enhancing **decision-making** and **monitoring**.
- Collaborated with **cross functional teams** to optimize model performance by **25%**, improving **epoch selection** and **scaling techniques**, reducing **training time** by **20%**, and accelerating **model deployment**.
- Processed and optimized **10+ years of operational data**, addressing **class imbalances** with **SMOTE** and **cost-sensitive learning** for **rare event prediction**, improving **detection of equipment failures** and **service reliability**.

Data Scientist Management Feb, 2023 - Aug, 2024 <i>Fleetrr Online Services</i>	Delhi, India Hybrid
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- Engineered machine learning models that reduced **inventory errors by 30%** using **regression, time-series forecasting, and anomaly detection**.
- Conducted **statistical analysis** with **Python (Pandas, NumPy, Matplotlib)**, uncovering actionable insights that improved **decision-making by 25%**.
- Automated **10+ KPIs** using **Python-based dashboards** and **data pipelines**, enabling **real-time monitoring** and **progress tracking** across teams.
- Worked with cross-functional teams to streamline **resource allocation, automate workflows**, and boost **operational efficiency**.

PROJECTS

IntelliDocs: AI-Powered Document Query System	[PROJECT LINK]
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- **Developed an AI-powered Document QA System** using **Google Gemini API** and **ChromaDB**, achieving **95%+ query accuracy** and efficient text retrieval for **50,000+ documents**.
- **Optimized NLP workflows** for text chunking and embedding generation, boosting **retrieval accuracy by 40%** and enabling **scalability** for **1M+ data points**.
- **Created a Streamlit interface**, enabling to upload documents and receive real-time, **<2 seconds** response time for large-scale document management.

[\[MORE PROJECTS\]](#)

SKILLS

- **Core Areas:** Data Science, Artificial Intelligence, Machine Learning (Supervised & Unsupervised Learning, NLP, Neural Networks, EDA, Feature Engineering)
- **Programming & Libraries:** Python (Scikit-Learn, TensorFlow, Keras, Pandas, NumPy, Beautiful Soup, Seaborn, Matplotlib), FastAPI, Streamlit
- **Mathematics for ML:** Algebra, Probability, Statistics, Calculus, Matrices
- **Databases:** MySQL, MongoDB, PostgreSQL
- **Cloud & Tools:** AWS (SageMaker), Jupyter Notebook, VS Code, Git, RabbitMQ, Power BI, Tableau, Canva

CERTIFICATIONS

Complete Data Science Bootcamp	Python & AI	Data Analyst & Visualization Job Simulation
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ACHIEVEMENTS

- Developed a **high-performing ridership prediction model** with **accuracy of 85%+** for the **SUPER SCADA system** at **Bharat Electronics Limited (BEL)**, **selected for deployment** in the production environment by **BEL**.
- Led a team of 10 to organize a memorable farewell event for 500+ attendees and played a key role as a core member of Techfest, showcasing **strategic planning, effective issue resolution, and seamless resource coordination**, all while managing a **100k budget**.

POSITION OF RESPONSIBILITIES

• 2022-2025	Founder & Core member	GENESIS, GNIT
• 2022-2025	President	Tech Club, GNIT
• 2023-2025	Sports head	Sports Cell, GNIT