Dushyant Pareek

National Institute of Technology, Agartala

dushyant.pareek.2002@gmail.com
linkedin.com/in/dushyant-pareek-072111290
https://dushyant-pareek.vercel.app/

SUMMARY

Machine Learning and Full Stack Web Developer with 2+ years of project experience building data-driven applications using Python, PyTorch, and React/Next.js. Proven ability to deliver production-ready solutions including stock predictors, real-time collaborative editors, and data pipelines. Seeking opportunities to leverage frontend, backend, and machine learning expertise to develop intelligent and scalable systems.

EDUCATION

- **National Institute of Technology, Agartala** — *Master of Computer Applications*
  Tripura, India — August 2023 - July 2026
  - **CGPA: 9.15**
  - Data Structures and Algorithms, Object-oriented Programming
  - Database Management Systems, Artificial Intelligence, Operating Systems
  - Software Engineering, Computer Architecture, Data Mining

- **St. Xavier's College, Jaipur** — *Bachelor of Science*
  Rajasthan, India — August 2020 - July 2023
  - **CGPA: 8.45**
  - Computational Mathematics, Linear Algebra, Probability and Statistics, Advanced Calculus

EXPERIENCE

- **Academic Interviewer Intern** — *April 2026 -*
  Newton School, Bangalore
  - Interviewed 100+candidates to assess subject matter expertise across diverse domains
  - Ensured timely completion of interview slots, contributing to a streamlined candidate assessment process
  - Collaborated with internal teams to refine interview formats and improve evaluation criteria
  - Maintained accurate documentation of candidate performance and provided actionable feedback

PROJECTS

- **Share Price Predictor** — *Tools: PyTorch, Pandas, Streamlit*
  - Trained LSTM-based neural network using PyTorch to predict daily stock prices with 85% directional accuracy
  - Automated data ingestion and preprocessing from Yahoo Finance using Pandas, improving workflow time by 40%
  - Built Streamlit-based dashboard to visualize forecasts and historical price trends with real-time refreshing

- **WriteSync: Collaborative Text Editor** — *Tools: Next.js, PostgreSQL, Shadcn UI , TailwindCSS*
  - Engineered real-time collaboration features using Liveblocks, enabling multi-user editing with sub-100ms latency
  - Designed and deployed secure user authentication with Clerk and dynamic routing in Next.js 14
  - Implemented database-backed document saving using PostgreSQL and optimized UI with TailwindCSS + Shadcn UI

SKILLS

- **Programming Languages**: Python, Java, JavaScript, TypeScript, SQL/NoSQL, HTML/CSS, LaTeX
- **Tools**: Git, Vercel, Docker, Google Colab, VS Code, PyCharm, IntelliJ
- **Web Development**: Next.js, React, Node.js, Flask, FastAPI, Streamlit
- **Machine Learning**: Scikit-Learn, PyTorch, TensorFlow, Pandas, Matplotlib, NumPy
- **Soft Skills**: Technical Writing, Problem Solving, Public Speaking, Team Management, Analytical Thinking

CERTIFICATIONS AND ACHIEVEMENTS

- **Front-end Web Development**, IBM SkillsBuild Summer Internship Program — *August 2024*
- **Graphs Camp**, AlgoUniversity program by Codeforces master — *January 2025*
- **HP Power Lab,** Hindustan Petroleum Corporation Ltd. — *December 2024*
  Collaborated with a team of 4 during HPCL Power Lab prototype submission and presented a machine learning solution towards improving fuel supply to rural India