NITIN GILL

📱 +91-8306676275 | ✉ nitingill1412@gmail.com | in LinkedIn | ⎇ GitHub | 📍 Jaipur, Rajasthan, India

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EDUCATION:

1. **B.S in Data Science & Applications** *(CGPA: 8.5/10)* — *Sept 2021 - present*
   from Indian Institute of Technology, Madras — Chennai, India
2. **B.E in Mechanical Engineering** *(CGPA: 9.1/10)* — *Aug 2020 -present*
   from Sant Longowal Institute of Engineering & Technology, Sangrur — Punjab, India
3. **Class X, XII: CBSE Board** *(CGPA: 9.4, Percentage: 90.00 %)* — *Mar 2016 - Mar 2019*
   from Birla School Pilani, Jhunjhunu — Rajasthan, India

SKILLS:

1. Programming: C++, Java, Python, PostgreSQL, JavaScript
2. Frameworks: Python-Flask, VueJS
3. ML Libraries: NumPy, Pandas, Matplotlib, Seaborn, ScikitLearn, PyTorch, Tensorflow, OpenCV, NLTK & Keras
4. Technologies: Linux (Vim User), OpenRefine, Web Scraping, Spark, Azure, & GCP
5. Natural Languages: Hindi *(Mother Tongue)*, English *(full professional proficiency)*

PROFESSIONAL EXPERIENCE:

1. Research Intern: Deep Learning & Computer Vision — *Jan 2024 - June 2024*
   at Indian Institute of Technology, Bombay — Mumbai, India
   a. Project 1: Developed a computer vision model utilizing Mask R-CNN architecture to detect surface cracks in materials with 94% precision, reducing false positives by 40%, trained on a dataset of 7000 images.
   b. Project 2: Developed a Physics-Informed Neural Network (PINN) model to simulate material behavior, achieving up to 60 times faster computation times compared to the Finite Element Method (FEM). Validated model accuracy against FEM software, achieving 98.2% accuracy, ensuring high efficiency and reliability.
2. Data Science Apprentice — *July 2021 – Sept 2021*
   at *Sabudh Foundation* — Punjab, India
   a. I led Safety Prediction Models for Women, achieving 85% accuracy using ML (Random Forest, XGBoost). Optimized features for a 15% accuracy boost and employed data visualization for effective communication.

PROJECTS:

1. Business Data Management Capstone Project | — *Jan 2023*
   a. Collected Conducted comprehensive data analysis for a fast-food restaurant, utilizing advanced statistical techniques to provide strategic insights and optimize operations.
   b. Achieved a significant 15% improvement in operational performance, optimizing processes and resource allocation. Spearheaded a notable 10% increase in revenue through data-informed decisions.
2. E-commerce Shopper's Behavior Understanding | — *April 2023*
   a. Developed a robust e-commerce data analysis framework that leverages machine learning techniques, including Logistic Regression, Support   Vector Machines, and Neural Networks, to address and rectify data inaccuracies.
   b. Achieved a substantial 15% enhancement in predictive accuracy, resulting in a more nuanced and accurate understanding of customer behavior within the e-commerce platform.
3. Online Grocery Store App | — *Sept 2023*
   a. Developed a Flask-based web application with SQLite, enabling multi-user functionality and enhancing grocery shopping efficiency.
   b. Designed an intuitive and responsive frontend using Jinja2 templates, Bootstrap, and Vue.js. Implemented Redis with Celery for efficient background task handling.

CERTIFICATIONS & ACHIEVEMENTS

1. Microsoft Certified: Azure AI Engineer Associate(AI 102), Azure Fundamentals *(AZ-900)*, Azure AI Fundamentals *(AI-900)*
2. Google Certified: Big Data, and Machine Learning on GCP, From Data to Insights with Google Cloud
3. Data Dynamics*:* Achieved 3rd place in the Techfest, SLIET ML hackathon, showcasing exceptional machine learning expertise. Developed a high-accuracy (98.54%) Crop Yield prediction model using data from agriculture-related websites, demonstrating strong proficiency in machine learning and data analysis. — *Mar 2023*
4. Cricket & Coding Challenge: Attained 20th rank nationwide in IIT Madras & NPTEL cricket & coding challenge; developed a robust ML model with RMSE of 1.25 for predicting runs after 6 overs in IPL cricket matches. — *May 2023*

POSITIONS OF RESPONSIBILITY

1. Event Coordinator: Worked in various settings including planning and executing successful events. Promoted entrepreneurship among young budding entrepreneurs for the Entrepreneurship Development Program. — *Dec 2020 - July 2021*
2. School Prefect & Captain: Served as a School Prefect, leading event organization and demonstrating leadership. Captained the school cricket team, achieving success in inter school competitions. — *Mar 2016 - Mar 2019*
3. Esports: Team secured 3rd position in Esports Competition-Kermis, Techfest' 22 SLIET.

RELEVANT COURSEWORK

Machine Learning, Deep Learning, Artificial Intelligence, Big Data, Computer Vision, Natural Learning Processing, Data Science Tools, Software Engineering & Testing, Reinforcement Learning, Business Analytics, Programming Algorithms & Data Structures, OOPs, Operating Systems, Databases, Application Development, Calculus, and Business Data Management, Statistics.