Prakhar Gandhi

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EDUCATION

B.Tech. (Electronics & Instrumentation) - BITS Pilani, Hyderabad (2015–2019)

GPA: 7.15/10

Key Coursework: Data Structures, Neural Networks, Discrete Math, Digital Image Processing

Self-Taught: DBMS, Number Theory (Project Euler)

Certifications: Advanced NLP, CNNs, RNNs, Bayesian ML, A/B Testing, Recommender Systems, Computer Vision

TECHNICAL PROFICIENCY

Programming Languages: Python, C++, JavaScript, SQL

Databases: PostgreSQL, MongoDB, Firestore

Machine Learning: TensorFlow, PyTorch, Scikit-learn, Pandas, NumPy

Tools & Frameworks: Flask, Django, PySpark, Jupyter Notebook, Docker, Terraform, AWS EC2, S3

Parallel Processing: Pandarallel, Mpire, Multiprocessing

WORK EXPERIENCE

Wipro Private Limited (Client: Ericsson) - Senior Software Engineer (Python Developer)

Jan 2025 - Current

- Built ChatGPT-style chat interface with CRUD features in Dash + SQLite.
- Demo presented to 1000+ Ericsson IQ employees.
- Features: Pagination, Dark/Light Theme Toggle, Export to CSV, Zoomable Graphs (Plotly), Tabular formatting

Wipro Private Limited (Client: Mercedes-Benz) – Senior Software Engineer (Python Developer)

May 2024 - Jan 2025

- Automated C++ code generation for Mercedes-Benz products, reducing manual effort using Python multiprocessing.
- Developed a Flask app with Docker and Socket.IO for live terminal visualization.

Standard Chartered Bank GBS - Senior Data Analyst (Data Analyst II), Associate Projects (Data Science)

Aug 2020 - Jan 2024

- QA Generation Pipeline: Reduced processing time by implementing parallel processing on large documents.
- Synthetic Data Generation: Improved dataset creation efficiency from 4 hours to 1 hour per document (256 logo combinations).
- Image Duplicate Detection: Improved accuracy by 80%+ for barcode, watermark, and seal detection.
- ML Model Performance: Achieved 85% accuracy using Faster R-CNN for object detection.
- McNemar Test Analysis: Optimized classifier selection using structured data comparison.
- NER Model Explainability: Attained 80% word-level accuracy in Named Entity Recognition analysis.

EXPERIENCE WITH PYSPARK

 Pyspark Performance Optimization (Zycus Assignment): Improved data processing speed by 91% using parallel computing for a text classification pipeline.

PROJECTS WITH MEASURABLE IMPACT

- Text Robustness App: Built a Flask-based NLP model attack simulation system.
- Avengers Face Detector: Deployed on Hugging Face, achieving 95% accuracy with 10ms inference time.
- Python Code Generator (LLM): Reduced execution time by optimizing prompt length.
- Web Scraping for BestBuy: Extracted and analyzed review data using NLP and sentiment analysis.

COMPETITIVE PROGRAMMING & ACHIEVEMENTS

Atcoder: Red coder

CodeChef: Peak 3-star rating





League of Super Heroes Gold award from Standard Chartered Bank for ML innovations

INTERNSHIP EXPERIENCE

Small Startup Internship (July 2018 - Dec 2018)

- Built an automated monitoring system to transfer projects over time using Firestore DB.
- Scraped kirana datasets from Justdial to increase product scalability by 150x.
- Automated web authentication for dynamically loaded websites like Facebook and Justdial.
- Extracted and simulated user interactions to optimize web scraping for missing product info.
- Developed multithreading-based Tkinter app for barcode production with memoization.

NOTABLE OPEN-SOURCE PROJECTS AT GITHUB

- Enterprise Level Scalable Web Apps and Components (LocTube, CubeClicker, JsonDataViewer, JsonBubbleChartViewer, JsonSplineChartViewer integrated into Material UI https://prakhr.github.jo/Portfolio-Site/#enterpriseWebApps)
- Automate Scalable Unsupervised Dataset Generation
- Automate Supervised Dataset Generation
- Automate Unsupervised Dataset Generation