Puru Singh

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EDUCATION

Graphic Era Deemed to be University   Dehradun, UK
Bachelor of Technology, Computer Science, GPA: 8.73   2020 - 2024

WORK EXPERIENCE

Data Engineer at Genpact   Bangalore, KA
Business Analyst Gen-AI   Oct 2024 – Current
- Migrated and optimized ETL pipelines by converting PostgreSQL logic from Greenplum to SparkSQL on Databricks, improving performance by up to 80% through Spark-specific optimizations.
- Designed and orchestrated robust end-to-end workflows using Databricks Jobs and native features to ensure scalable, reliable, and efficient data processing.
- Collaborated with cross-functional teams to streamline the migration process across ingestion, transformation, and visualization layers—including dashboards and data products.
- Addressed complex data engineering challenges during platform modernization and contributed to the stability and scalability of the new data ecosystem.

Internship at Genpact   Hyderabad, TL
Data Analyst and Gen AI Intern   Feb 2024 – July 2024
- Leveraging Generative AI, Developed an automated software to generate summaries of large financial reports (10-K), optimizing control flow and prompt engineering, resulting in a speedup of over 85%.
- Created a Financial Health Dashboard for Consumer Banking using Microsoft Power BI, aggregating all income sources and spending, providing a comprehensive financial overview at a glance.
- Gained experience on Data Cleaning, Data Pre-Processing, and creating insightful dashboards to extract valuable insights.

Internship at Defense Research and Development Organization (DRDO)   New Delhi, DL
Android Development and Security Intern   Jul 2023 – Aug 2023
- Developed a background Android app using Kotlin and Android Studio to forward notifications via SMS with comprehensive transaction logs.
- Conducted static and dynamic security analysis using MobSF, reducing testing time by 70% and identifying critical flaws.
- Acquired expertise in Android systems and security protocols.

PROJECTS

Face Recognition system using One-Shot Classification
- Designed and implemented a **facial recognition system** capable of learning and identifying faces from a single image, achieving a **90% speedup** compared to traditional methods.
- Utilized **Haar-Cascade** for face detection and **Keras FaceNet** for embedding generation and classification.
- Implemented one-shot classification by computing **embedding differences** and measuring similarity through a distance metric (e.g., Euclidean or cosine distance), enabling robust and accurate face matching even with minimal training data.

ACHIEVEMENTS

Top 50 in Coursera's first Employment Hackathon   Online - Jan 2023
- Came in top 50 of Coursera's hackathon in the domain of Data Science and Analytics.

3rd Position in Intel's OneAPI Hackathon   IIT Roorkee, UK - Mar 2023
- Achieved 3rd position in Intel's hackathon in the domain of Intel's OneAPI, SYCL programming and Machine Learning.

ADDITIONAL

Technical Skills: Python, Apache Spark, Apache Airflow, SQL, Databricks, C++, Machine Learning, Generative AI, Microsoft Power BI, Kotlin, Excel
Languages: Fluent in English and Hindi
Certifications & Training: Databricks Data Engineer - Professional, **Databricks** Data Engineer - Associate**,** AI-900 **Microsoft** Azure AI Fundamentals, CLF-C01 **AWS** Certified Cloud Practitioner
Hobbies: Fast Touch Typing (120+ Words per min), Reading self help books, Playing PC Games, Beatboxing.