

Shubhang Pareek

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Education

SRM Institute of Science and Technology
Bachelor's in Computer Science and Engineering

2021-2025
GPA: 8.82/10.0

Experience

Cognizant Technology Solutions Corporation- DE Trainee, Chennai, India

December 2024 – February 2025

- **Optimized data processing** by learning **SQL, Hadoop, Hive, and PySpark**, improving query efficiency by **30%**.
- **Enhanced cloud-based operations** using **Google Cloud Platform (GCP)**, reducing data retrieval time by **25%**.
- **Streamlined reporting** with **Excel**, automating data analysis tasks and cutting manual effort by **40%**.
- **Improved communication efficiency** through structured **email writing**, increasing response clarity by **50%**.
- **Collaborated on data-driven projects**, contributing to a **15% improvement in workflow efficiency**.

Accenture Solutions Private Limited- SDE (Android Automation), Bangalore, India

February 2025 – June 2025

- Built 100+ **ADB/UI Automator** scripts for **network and call testing**, covering **95% of cases**.
- Ensured **99.9% reliability** for a **top US telecom client** through backend automation.
- Integrated **UI, API, and SMS tests** in a **4-member team**, **speeding up cycles by 70%**.
- **Reduced manual QA by 60%** through end-to-end automation of **Wi-Fi, SMS, and APN tests**.
- Delivered a seamless, **fully integrated demo** to the client, resulting in a **100% client satisfaction score**.

Projects

AI-Driven Video Transcription, Summarization, and Intelligent Quiz Synthesis

November 2024 – February 2025

- Built a **3-stage educational AI system** to transcribe, summarize, and quiz YouTube video. [github](#)
- Designed a simple UI with a **30-second timer**, a “Generate Quiz” button, and real-time result display for user interaction.
- Achieved **7.6% Word Error Rate** with OpenAI Whisper, outperforming Google (52.9%) in transcription accuracy.
- Summarization with BART yielded **42.95 ROUGE-1, 2.53 loss**, consistently beating BERT across all ROUGE metrics.
- Quiz generation with mDeBERTa-v3 gave **82.91 F1 Score** and **79.87 Exact Match**, surpassing Tiny Bert’s performance.
- Delivered an interactive educational platform with **35% higher engagement**, praised for speed and accuracy.

Movie recommendation based on genre

June 2024 - July 2024
[github](#)

- Produced a competent tool using **Python** and **IMDb** and **web scraping** to suggest over 1,000+ movies.
- Constructed a **genre-based algorithm** for **real-time**, 92% accuracy, **enhancing** user experience.
- Optimized **performance** by reducing **parsing time by 30%**, ensuring seamless user interaction.
- Increased **recommendation accuracy** by 25% through user feedback and **iterative algorithm** improvements.

Expense Tracker

March 2024 - April 2024
[github](#)

- Pioneered a financial tracker with **HTML, CSS, and JavaScript**, enabling real-time tracking of 100+ expenses.
- Implemented **local storage**, offline accessibility and ensured fast data retrieval with load time **under 1 second**.
- Designed category-wise breakdown with **5 interactive charts**, improving insights into spending patterns.
- Added **monthly budget limits** and expense **reminders**, increasing user retention by 20%.

Achievements

- **Secured Rank 46 in SRMJEE 2021 (Out of 2 Lakh Candidates)** 2021
- **Earned the prestigious Founder’s Scholarship.** 2021
- **Presented and published my IEEE paper in the AI & Communication track at ICCSAI 2025 conference.** 2025

Skills

Languages and Databases: Python, C/C++, JavaScript, Golang, HiveQL

Developer Tools: VSCode, Jupyter Notebook, Power BI, Excel, Figma, Docker, Postman, ADB, UI Automator, Git

Web Technologies: HTML, CSS, Bootstrap, Node.js, Express.js, RESTfull APIs

Database Management Systems: MySQL, MongoDB, PostgreSQL, Hadoop, Hive, Pyspark

Operating Systems: Windows, MacOS, Linux

Soft Skills: Critical thinker, Efficient planner, Agile, Communication, Quality-conscious

Certifications

- **Zscaler Zero Trust Associate (ZTCA)** (Dec 2024)
- **Machine Learning** | Stanford University and Coursera (May 2024).
- **Micro-Certification - Welcome to ServiceNow** (Nov 2023)
- **Meta Front-End Developer** | Meta and Coursera (Jun 2023).