UTSAV KUMAR

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EDUCATIONAL QUALIFICATIONS

Course / Examination	Institution / University	Year	Performance
B.Tech (MECHANICAL ENEGINEERING)	Delhi Technological University, New Delhi	2022-2026	8.54 (Aggregate GPA)
AISSCE/CBSE (Class XII)	Green Fields School, New Delhi	2021	89%
AISSE/CBSE (Class X)	Green Fields School, New Delhi	2019	88.9%

WORK EXPERIENCE

Oil and Natural Gas Corporation (ONGC) – New Delhi, India | Certificate   *May'25 – June'25*
Internship Trainee

- Interned in the **Head Office of ONGC at Vasant Kunj, New Delhi**.
- Studied all **extraction methods** used by ONGC.
- Worked under the guidance **of Mr. Vivekanand, Superintending Engineer,** on the project **"Surface Facilities & Effluent Treatment Plant at GGS."**
- Contributed to enhancing facilities at the **Mehsana Site in Gujarat**, part of the **Linch Redevelopment Project (LRDP).**
- Focused on upgrading infrastructure, including **Group Gathering Station, Effluent Treatment Plant, Water Injection Plant, Gas Handling Systems, and Safety & Environmental Compliance.**
- Assisted in designing **Process Flow Diagrams (PFD)** and **Piping & Instrumentation Diagrams (P&ID)** using **AutoCAD**.
- Learned about ONGC's product sales to companies like GAIL, Reliance, Indian Oil Corporation Ltd, etc.

Delhi Metro Rail Corporation (DMRC) – New Delhi, India | Certificate   *December'24 – January'25*
Internship Trainee

- Interned in the **Rolling Stock Department** of the DMRC, Shastri Park Depot.
- Acquired knowledge of key sections, including **Bogie & Suspension, HVAC/Aircon, Door Mechanisms, Pneumatics & Brakes**
- Studied the integration and maintenance processes of critical components to ensure seamless metro operations.
- Observed **safety and performance standards** across various mechanical systems.
- Enhanced understanding of **real-world applications** of mechanical engineering principles in transportation.

PROJECTS UNDERTAKEN

LeetCode Logic Builder – Chrome Extension | JavaScript, HTML, CSS, Gemini API, Chrome Extension APIs | **Repo**
Developed a Chrome Extension that reads LeetCode problems directly from the webpage and uses the Gemini API to generate logic, write code, and provide step-by-step explanations in real-time.

- Utilized **JavaScript** for DOM parsing, API integration, and content scripting; designed the UI using **HTML/CSS** for a clean and responsive interface.
- Integrated **Gemini API** to deliver AI-powered solutions and explanations, streamlining problem-solving for LeetCode users.
- Ensured seamless interaction with LeetCode's interface using **Chrome Extension APIs**, enhancing user experience without disrupting the workflow.
- Designed for aspiring programmers and competitive coders to improve understanding, speed, and confidence in solving coding challenges.

Intelligent PDF Summariser and Analyser – Web App | Python, Docker, PDF Parsing, Persona-driven Analysis | **Repo**

- Built an AI-powered PDF analyser using PyMuPDF, NLTK, and Sentence Transformers to extract hierarchical outlines and generate persona-specific insights with multilingual support (Hindi, Japanese, English). Handles 10–20 PDFs per batch with reliable accuracy and precision.
- Engineered a lightweight, Docker-ready solution under 1 GB with semantic similarity scoring, keyword extraction, and job-relevance ranking, outputting structured JSON for research and fintech analytics.
- Tech Stack: Python, PyMuPDF, NLP (NLTK, Transformers), Docker, Regex, Google Colab

SKILLS AND ABILITIES

- **Languages:** Python, C++, JavaScript, SQL, HTML, CSS, Golang
- **Technical Skills**: Full Stack Web Development, Database Management System, Natural Language Processing
- **Tools & Frameworks:** MySQL, ChatGPT, Visual Studio Code, Gemini API, Docker, ReactJS, NodeJS, Bootstrap, DJango
- **Coursework:** Object Oriented Software Engineering (SDLC), Theory of Computation, Production & Operations Management, Quality Management and Six Sigma Applications, International Logistics Management, Engineering Economics.
- **Soft Skills:** Strong communication, teamwork, problem-solving, adaptability, time management, leadership, multitasking, and a proactive, result-oriented mindset
- **Coding Platforms:** 272+ problems on LeetCode (~429K Rank), 200+ problems on GFG.

POSITIONS OF RESPONSIBILITY

Public Relations Executive – Cultural Council DTU *(Jan'23 – Mar'24)* – Organized the major fest of the University like EngiFest'23, etc.
Mentor – Desh Ke Mentors *(November'22 – May'23)* – Worked as a mentor - participated in Desh Ke mentor (Country's mentors), providing guidance in which mentored 4 students of government school in totality for their amelioration.