

# UJJWAL PURI

[ujjwalpuri.work@gmail.com](mailto:ujjwalpuri.work@gmail.com) | [linkedin.com/in/ujjwal-puri](https://www.linkedin.com/in/ujjwal-puri) | [github.com/ujjwalpuri29](https://github.com/ujjwalpuri29) | [ujjwalpuri29.github.io](https://ujjwalpuri29.github.io)

## EDUCATION

**University of Southern California** Expected May 2027  
**Master of Science in Computer Science** Los Angeles, CA

- Relevant coursework: Analysis of Algorithms, Database Systems

**SRM Institute of Science and Technology** Jul 2019 - May 2023  
**Bachelor of Technology in Computer Science and Engineering, GPA: 9.28/10** Chennai, India

- Relevant coursework: Data Structures and Algorithms, Database Management, Operating Systems, Software Development, Artificial Intelligence, Digital Image Processing, Natural Language Processing

## TECHNICAL SKILLS

- **Languages:** Python, C++, JavaScript, TypeScript, SQL, HTML, CSS
- **Libraries/Frameworks:** NodeJS, ReactJS, ExpressJS, Flask, FastAPI, TensorFlow, OpenCV, Scikit-learn
- **Cloud & DevOps:** AWS, GCP, Git, GitHub, RESTful APIs
- **Databases:** MySQL, PostgreSQL, MongoDB

## PROFESSIONAL EXPERIENCE

**Decision Analytics Associate** Jun 2023 - May 2025  
*ZS Associates* Pune, India

- Built a **full-stack web application** for Medical Affairs performance tracking using **ExpressJS** and **ReactJS**, replacing static reports and enabling real-time, enterprise-scale performance dashboards to enable data-driven decisions
- Partnered with cross-functional teams to **optimize backend SQL queries**, achieving 40% faster report generations
- Automated **reporting and validation pipelines** with **Python** and **Microsoft Excel**, reducing data processing time for 10+ field teams by 5% and eliminating ~20 hours/month of manual work
- Developed **key frontend components** and **integrated RESTful APIs** to support multi-user data visualization features
- Partnered with 30+ stakeholders to define key metrics and **develop Power BI dashboards** for ongoing KPI monitoring
- **Onboarded and trained** 20 juniors, enhancing their proficiency in analytics tools and aligning with project workflows

**Research Intern** Jan 2022 - Dec 2022  
*Samsung R&D Institute India* Chennai, India

- Fine-tuned deep learning models in **Python** for reflection removal in images, improving model performances using metrics such as PSNR and SSIM
- Compiled a comprehensive RAW image database, ensuring high-quality data for model training and validation
- Evaluated **10+ academic papers** for existing methodologies to identify optimal baseline for reflection removal

**Tech Associate Trainee** Jan 2021 - Dec 2021  
*Optshine Digitech Solutions* Chennai, India

- Deployed the company's first **production website** using **ReactJS** hosted on **AWS**, driving 500+ visits within the first quarter
- Collaborated with **5+ stakeholders** and designed **wireframes and prototypes** for mobile applications in **Figma** and **Adobe XD**, ensuring user-centric design while guiding development of the startup's first product interface

## PROJECTS

**Gradescope Calendar Sync** | *Python, FastAPI, Google Cloud Engine, BeautifulSoup* Sep 2025

- Created and deployed a secure, automated **FastAPI web app** that integrates Gradescope deadlines to Google Calendar with **Google OAuth 2.0** for secure authentication and cron automation
- Integrated **cloud-based authentication and REST endpoints**, following clean architecture and CI/CD best practices.

**Pre-publication Book Popularity Prediction** | <https://doi.org/10.1063/5.0217437> | *Python, NLP, Machine Learning* Apr 2023

- Built a machine learning model to predict the popularity of books by leveraging textual features and metadata such as genre, topic, and author information from **100K+ manuscripts**
- Applied statistical methods and ML algorithms to forecast popularity, demonstrating practical **predictive modeling** and **data analysis**; published findings in the **AIP Conference Proceedings Journal**

## LEADERSHIP AND INVOLVEMENT

**Organizer - Aaruush SRM IST** Feb 2022 - Mar 2023

- **Managed a team of 150+ students**, coordinated with cross-functional teams and external stakeholders to organize large-scale events, demonstrating **strong leadership and communication skills**

**Creatives Lead - ACM-Women SRM Chapter** Jul 2021 - Jun 2022

- Scaled the community from 10 to 100 members in 2 months by building an online presence and **leading UI/UX training sessions** to improve design skills using industry-standard tools