

# KUNAL SHARMA

✉ ksharma@student.nitw.ac.in  
🌐 ksh168.github.io  
☎ +91-8005681030  
in kunalsharma99  
🔗 ksh168

## EDUCATION

**National Institute of Technology Warangal** 2017 to 2021  
B. Tech in Electrical and Electronics Engineering  
CGPA: 6.66/10

**MDS Senior Secondary School** 2016  
XII CBSE 92.4%

**Alok Senior Secondary School** 2014  
X CBSE CGPA: 9.6

## SKILLS

**LANGUAGES/Frameworks:** C++, JavaScript, NodeJS, Python, Django, NestJS, MATLAB, TypeScript  
**DATABASES:** MySQL, MSSQL, PostgreSQL  
**QUEUES:** Kafka  
**DATA ENGINEERING:** PySpark, Airflow  
**OTHER INTERESTS:** Astronomy, Graphic Designing

## ACHIEVEMENTS

- **Joint Entrance Examination (Advanced)**  
AIR: 7447 (GEN)
- **Joint Entrance Examination (Main)**  
AIR: 6107 (GEN)  
Top 0.5% of 1.3+ million students nationwide
- **Science Olympiad Foundation**  
School Topper

## ACTIVITIES

**Assistive Technology Team, Innovation Garage (IG)**  
Working on technology solutions for **Visually Impaired(VI)**. Current Projects: Teaching geometry to VI kids, Navigation system for VI people.

**Electrical Engineering Association, NIT Warangal**  
Served in **Event Conduction & Coordination** and **Design** teams.

**E-Cell & E-Summit, NIT Warangal**  
Served in **Design** and **Event Conduction & Coordination** teams.

**Technozion, NIT Warangal**  
Managed a techno-marketing event named **MAD MARKETING** at the annual technical fest of NIT Warangal. The event was the only management themed event in the whole fest. It witnessed a participation of **400+ students**.

## EXPERIENCE

**MediBuddy** Apr. 2022 to Current  
*Software Development Engineer I*  
Bengaluru

- Implemented key wallet ledger feature that **increased conversions by 12%**
- Automated **MIS report generation** that helped finance save time and resources.
- Deployed **kafka queue**, allowing operations to streamline insurance claims process.
- Migrated **MSSQL stored procedures** to **pyspark** on EMR.
- Unified the end to end **financial transactions flow** for an **entire BU** with **xxCr/month** revenue.
- Designed a new JSON based **custom request workflow state system** for claim request flow.

**ACT Ltd** June 2021 to Apr. 2022  
*Management Trainee*  
Bengaluru

**Technical Leadership Development Program (TLDP):**

- Implemented **CSAT score** capturing **framework** giving Marketing and Operations a visibility on customer satisfaction.
- Designed and Implemented a custom **Mobile App Analytics tool** to capture **user journey**, **friction points**, **user engagement** helping them to better understand users.

**Aufenbach** Oct. 2019 to Mar. 2020  
*Internship*  
Warangal

**Real-time Body Tracking for VR Applications:**

- Developed a system through which user's physical activities are tracked using sensors.
- Users can **walk** inside computer simulation **without any hand controls**.
- Worked on **design** of system, **data acquisition** from sensors and conversion to useful format.
- Was able to convert the work done here into **2 research papers** that were presented at various locations.

## PUBLICATIONS

**HCH DEX: A Secure Cryptocurrency e-Wallet & Exchange System with Two-way Authentication** Oct. 2020  
IEEE, 2020 Third International Conference on Smart Systems and Inventive Technology (ICSSIT)  
DOI: [10.1109/ICSSIT48917.2020.9214122](https://doi.org/10.1109/ICSSIT48917.2020.9214122)

**Smart Boarding System with e- Passports for Secure and Independent Interoperability** Nov. 2021  
Springer Nature Computer Science. 3, 52 (2022)  
DOI: [10.1007/s42979-021-00938-5](https://doi.org/10.1007/s42979-021-00938-5)

## PROJECTS

**Custom URL Shortener - smolink**

- Shortens URL upto length **512 characters to 6 characters**
- Able to redirect links and keep **stats** on the number of visits
- Users can set their own **personalized URL**
- Has HTTP Basic Authentication to view stats

**Django Blog Website**

- Blog website made using Django and deployed on PythonAnywhere, sqlite3 is db
- Users can:- **Register new account, create, update, delete posts**
- Choose a **custom profile picture**, View posts by individual user
- Change account username, email, password
- Request password reset email

**Celebrity Face Recognition**

- Dataset used **250+ images** in **5 categories** mined using web scraping
- SVC, Random Forest, Logistic Regression, OpenCV, Python, Flask
- End to end project with Web UI where user can **drag and drop** the image to classify
- Successfully achieved an **accuracy of 82%**

**Bengaluru Real Estate Price Prediction**

- Dataset used consists of **13,000 records** with **8 independent features**.
- LinearRegression, DecisionTreeRegressor, Python, Flask
- End to end project with Web UI, user can input the features & get an estimate price
- Successfully achieved an **accuracy of 86%**

## VOLUNTEERING

• **World Space Week, NIT Warangal** (In association with WSWA and ISRO SDSC, SHAR)  
Event Coordination and Public Relations. The event received a footfall of **15k in 2 days**. **~80%** of them were school children.