KUNAL SHARMA

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

SKILLS

LANGUAGES/FRAMEWORKS: C++,
JavaScript, NodeJS, Python, Django,
AngularJS, MATLAB
DATABASES: MySQL, MSSQL, PostgreSQL
QUEUES: Kafka, SQS
DATA ENGINEERING: EMR, 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.

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.

EXPERIENCE

MediBuddy　　　　　　　　　　　Apr. 2022 to Current
Software Development Engineer 1　　　　　　Bengaluru
- Implemented key wallet ledger feature that **increased conversions by 15%**
- Brought **payment automations** that helped business save resources
- Deployed **kafka queues**, allowing operations to streamline insurance claims process
- Migrated MSSQL stored procedures to **pyspark EMR**

ACT Ltd　　　　　　　　　　　June 2021 to Apr. 2022
Management Trainee　　　　　　　　　　Bengaluru
Technical Leadership Development Program (TLDP):
- **CSAT score framework**: HTML, CSS, JS, PHP
- **CXM App Analytics tool**: MongoDB, Python, Parse, NodeJS

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.

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

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

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

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%**