

KUNAL SHARMA

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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

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](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**, uses sqlite3 as db
- Has **HTTP Basic Authentication** to view stats
- Made using Flask, Flask-SQLAlchemy

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**
- Used: 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**.
- Used: 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%**