Mandavyapuram Harika

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EDUCATION

- **Indian Institute of Technology Patna** — Bihar, India
  Bachelor of Technology - Civil and Environmental Engineering; CPI: 8.42 — *July 2019 - May 2023*

- **Narayana Junior College** — AP, India
  Intermediate; Percentage: 98.4 — *July 2016 - May 2018*

- **MGM EM School** — AP, India
  Class X; CGPA: 9.5 — *July 2015 - May 2016*

PROJECTS

- **Marksheet Generator :**
  Developed a Marksheet Generator using Python as the backend language with Flask as the interface. Employed HTML and CSS for the frontend. Integrated seamlessly with Google Forms to enable dynamic marking.

- **Transcript Generator :**
  Engineered a dynamic Transcript Generator for IIT Patna using Python and Flask for the backend, and HTML/CSS for the frontend. Designed to effortlessly incorporate new branches and courses, showcasing adaptability and scalability.

- **E-commerce Website :**
  Applied polynomial curve fitting in Python (utilizing Scipy module) and MATLAB's fmincon function for the probabilistic analysis of MSE Walls. Demonstrated proficiency in both languages to model and analyze complex structures.

- **Data Extraction from PDF to Excel :**
  Developed a Python script employing PyMuPDF for extracting semi-structured data from catalog PDFs to Excel.Utilized regular expressions for efficient and accurate data extraction.

- **Probabilistic analaysis of MSE Walls (BTech Project) :**
  Applied polynomial curve fitting in Python (utilizing Scipy module) and MATLAB's fmincon function for the probabilistic analysis of MSE Walls. Demonstrated proficiency in both languages to model and analyze complex structures.

PROFESSIONAL EXPERIENCE

- **Junior Software Engineer** — July'23 - Present
  Simple Intelligence — *Kirkland, Washington*

Engaged in research and development of Car Image Generation using advanced Generative AI models. Exploring cutting-edge technologies to produce realistic car images, showcasing a commitment to staying at the forefront of innovation.

SKILLS SUMMARY

Languages:	Python, C++, JavaScript
Platforms:	Linux,Windows
Web Technologies:	HTML, CSS, NodeJS, ReactJS
Softwares:	AutoCAD, SAP 2000, Revit, MATLAB

POSITION OF RESPONSIBILITY

- **Coordinator: MPR committee** — ACE, IIT Patna
  Worked as Coordinator of MPR committee for Samnivesha fest conducted by ACE. — *Apr'21 - Mar'22*

- **Campus Ambassador** — NEO
  Worked as Campus Ambassador for National Engineering Olympiad Educational Foundation. — *Apr'20 - Jun'20*

ACHIEVEMENTS

- LPU Scholar 2019 for admission into IIT.

- Secured 2nd prize in Delineation of G+1 Building event of Inter IIT CIVIL Conclave 2021 organised by IIT Roorkee.