

Dushyant Prakash

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TECHNICAL SKILLS

Developer Tools: Microsoft Office (PowerPoint, Excel, Word), Tableau, Git, VS Code, Photoshop, AutoCAD, SketchUp, QGIS, ArcGIS
Languages: Python, SQL (MySQL), HTML/CSS
Libraries: TensorFlow, Keras, PyTorch, pandas, NumPy, Matplotlib, OpenCV
Skills: Data Analysis, Data Visualization, Presentation Design, Quality Assurance, Document Editing, Communication, Collaboration, Project Management, Design (Architectural/Product)

EDUCATION

Indian Institute of Technology (IIT) Roorkee Roorkee, IN
Master of Technology in Civil Engineering, Specialization in Geospatial Engineering June 2022 – May 2024
Nagpur University Nagpur, IN
Bachelor in Architecture Aug. 2010 – May 2015

PROJECTS

Blinkit Sales Analysis/Insights Dashboard | *Power BI, Microsoft Excel, SQL (MySQL)* June 2024

- Analyzed sales, customer satisfaction, and inventory with KPIs and visualizations (donut charts, bar charts, funnel maps). Conducted data processing and quality checks, providing clear insights on outlet statistics and performance metrics.

Building Typology Extraction using Deep Learning | *Python, GEE, QGIS* May 2023 – May 2024

- Used multisource remote sensing data and deep learning (cGANs) for qualitative analysis and adapted deep learning based monocular depth estimation for quantitative height analysis. Integrated these methods into a 3D model, enhancing accuracy and scalability for urban planning and smart city initiatives.

Risala Resort | *Architectural Design, Project Management* May 2021 – Sep. 2022

- Led a comprehensive design and renovation project at Risala Resort, Ajmer, Rajasthan. Designed new and renovated existing building blocks, created architectural drawings and 3D models, managed on-site execution, and coordinated with client. Successfully enhanced the resort's appeal, leading to increased footfall and revenue growth.

Topographical Map, Chandi Ghat | *DGPS, Total Station, QGIS, Project Management* Dec. 2022

- Single-handedly managed a team of around 200 students over three weeks to efficiently map a two-square-kilometer area using Total Station and DGPS. Coordinated the mapping process and prepared a comprehensive topographical map with detailed features for future development.

Glacier Surface Velocity, Siachen Glacier | *ESA SNAP, QGIS* Jan. 2023 – May 2023

- Estimated surface velocity using Sentinel-1 GRD data from October 2020 and 2021, processed with ESA SNAP and QGIS. Found peak velocity at 0.479 m/day and minimum at 0.10 m/day, with an RMSE of 0.05 m/day, contributing to glacial hazard understanding and water resource management.

EXPERIENCE

Teaching Assistant June 2022 – June 2024
IIT Roorkee Roorkee (UK), IN

- Taught Geo-data processing, Photogrammetry, and Image processing to M.Tech students

Freelance Architect April 2019 – Nov. 2021
Self-Employed India

- Undertook and executed various architectural and interior design assignments, while also providing 3D modeling services for designers

Architect & Designer Oct. 2016 – March 2019
Asad Firdosy Design (Fidos Furnishers) Nagpur (MH), IN

- Designed, developed and oversaw architectural, interior, furniture, product, and graphic design projects, ensuring comprehensive project execution and coordination across various design disciplines.
- Created presentation for proposal of beautification of Nagpur metro at the Nagpur Metro Convention. Proposal was accepted and implemented by the authorities.

Junior Web Developer

Aug. 2015 – Oct. 2015

Pooja Graphics (short term project role)

Nagpur (MH), IN

- Implemented responsive designs and interactive features using HTML, CSS, JavaScript, and modern frameworks. Collaborated with senior developers and designers to enhance user experience and troubleshoot issues.

Project Architect

Dec. 2015 – Feb. 2016

Supriya Bharuka and Associates (short term project role)

Nagpur (MH), IN

- Designed architectural and interior elements for integration with the existing structure. Collaborated with structural and civil engineers, as well as contractors, to ensure seamless execution and compliance with project specifications.

INTERNSHIPS

Intern Architect

June 2014 – Nov. 2014

Betweenlines

Bangalore, IN

- Worked on technical Drawings and working drawings for on going projects at the firm. Conducted client meetings and collaborated with other agencies involved in the construction process

ACHIEVEMENTS, CERTIFICATIONS AND SCHOLARSHIPS

Oracle Certified Professional

July 2024

Oracle Cloud Infrastructure 2024 Generative AI certified Professional

Oracle

Award for highest CGPA

July 2024

Amba Prasad - Kalawati Award for highest CGPA in M.Tech programme

IIT Roorkee

GATE-AR

Feb. 2022

All India Rank - 36

GATE-GE

Feb. 2023

All India Rank - 92

MHRD Scholarship

June 2022 – June 2024

INTERESTS

Music

- Member of music section IIT Roorkee. Participated in Inter IIT cultural fest. #3
- Participated in BITS Pilani band competition. #2

Mathematics

Operations research, Optimization techniques, Statistics, Probability, Linear Algebra, Calculus, Numerical Analysis

REFERENCES

Prof. Dr. Kamal Jain

kamal.jain@ce.iitr.ac.in

Professor

IIT Roorkee