




PRABHASH KUMAR

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PROFESSIONAL SUMMARY

A Learner making the Machines Learn. A PMRF Scholar in IIT Kharagpur exploring Materials and adding value to society, country & world. Strengths are Teaching and Research. Blending Data Science with Materials is my Passion.

Innovative Educator adept at bringing the 21st Century into the secondary classroom. Skilled at utilizing current educational hardware (tablets, laptops, Smartboards, digital cameras) and software (Blackboard, Canvas, Rediker, Adobe Creative Suite) both in and out of the school setting. 15+ years of experience as a teacher, mentor and department chairperson responsible for the innovation and development of new programs and initiatives.

EMPLOYMENT HISTORY

Jan. 2021 – Present
Kharagpur, West Bengal

● **Prime Minister's Research Fellow, IIT Kharagpur**

Researching in the field of Computational Metallurgy for Designing Multi-Principal Element Alloys (MPEAs) for Dental Implants using Machine Learning & Deep Learning.

- Direct research and development programs.
- Test new and updated bioinformatics tools and software.
- Develop data models and databases.

Dec. 2015 – Feb. 2017
Kolkata, West Bengal

● **Educator, Mehanzeers Education**

Teach Mechanical Engineering subjects for GATE & ESE

Prepare students for later educational experiences by encouraging them to explore learning opportunities and to persevere with challenging tasks.

Adapt teaching methods and instructional materials to meet students' varying needs, abilities, and interests.

Nov. 2014 – Dec. 2015
Kolkata, West Bengal

● **Assistant Engineer (Mechanical), BIL Infratech Ltd**

Designing Fire Protection systems and HVAC Systems together with Pipe and Duct Sizing.

To undertake and supervise MEP (Mechanical, Electrical and Plumbing) projects in various construction sites along with commissioning and procurement of EPC (Engineering, Procurement & Construction) Projects.

Monitor installation of plumbing, wiring, equipment, or appliances to ensure that installation is performed properly and is in compliance with applicable regulations.

EDUCATION

- Present ● **Ph.D.: Metallurgical & Materials Engineering**
 - Indian Institute of Technology, Kharagpur - Kharagpur, West Bengal
- May. 2019 ● **M.Tech: Metallurgical & Materials Engineering**
 - National Institute of Technology, Rourkela - Rourkela, Odisha
- May. 2014 ● **B.Tech: Mechanical Engineering**
 - Sanaka Educational Trusts' Group of Institutions - Durgapur, West Bengal
- Mar. 2009 ● **Intermediate XII**
 - Mount Assisi School - BHAGALPUR, Bihar
- Mar. 2007 ● **Matriculation X**
 - Mount Assisi School - Bhagalpur, Bihar

SKILLS

- Expert ● **Microsoft Office & Internet**
- Novice ● **AIIDA - Quantum Espresso**
- Experienced ● **Numerical Methods**
- Experienced ● **MATLAB**
- Skillful ● **Tensor flow**
- Skillful ● **Scikit Learn**
- Expert ● **Python**