PRASHANT KASHYAP

ACADEMIC PROFILE

Degree/Certificate	Institution	Percentage/CGPA	Year
M-Tech (Extractive Metallurgy)	Metallurgical Engineering IIT (BHU), Varanasi	8.91	2022
B.Tech , Metallurgical Engineering	National Institute of Technology, Raipur	78.30	2019
CBSE (XII)	D. A. V. Gevra	87.40	2015
CBSE (X)	D. A. V. GEVRA	95.00	2013

SKILLS

Technical Software

- LAMMPS
- MATLAB
- Ovito
- Rosetta

Computer Skills

- MS Word
- MS Excel
- MS Powerpoint

Software Language

- C++
- SQL

INTERNSHIP/TRAINING

Vizag Steel Plant — 21 Days

Project : A Study on Optimization of coke rate in the sinter mix
Exposure : Handling the sinter mix data and modelling to compute the coke rate required in the sinter mix using MS-excel.

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Bhilai Steel Plant — 1 Month

Project: A study on factor affecting the coke rate in the blast furnace
Exposure: Handling the various parameters in the blast furnace and predicting factors affecting the coke rate using Regression analysis.

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Short Term Training Program on “Computation Intelligence in Engineering Application" — 1 week

Use of the computational tools like ***Genetic Algorithm(GA)*** for the optimization related problem , ***Principal Component Analysis (PCA)*** for the big data to study the relations and trends and ***Artificial Neural Networks*** to simulated the big dataset and optimize the problem to get optimized results.

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PROJECTS

M.Tech Thesis

Project: Understanding Tensile and Fatigue Properties of Cu Polycrystal using MD Simulation with Special Grain Boundaries.
Exposure: Using the lammps simulation performing tensile and fatigue testing to the Copper polycrystal having high/low grain boundaries and the sigma 3 boundaries . Observing the microstructural changes and the deformation mechanisms in the polycrystal.

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Technical Paper

Project :Modelling the Criteria for designing the composition and phases of High Entropy Alloys (HEAs)using Rough Set Theory Approach
Exposure : Collected the dataset of the ***High Entropy Alloys (HEAs)***properties through various research papers . Did some data mining through the excel and then used the dataset to formulate some conditions to predict the possibility of particular phase in the future alloy synthesized using the software *ROSETTA*.

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Major Project(B.Tech)

Project : MD-Stimulation of the properties of Piezo-ceramic material.
Exposure : Stimulating the BiMnO3 Piezo-Ceramic using LAMMPS and finding the Tensile strength and melting point through it.
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Minor Project(B.Tech)

Project : Synthesis of BiMnO3 Piezoelectric ceramic by mechnochemical processing
Exposure: Studying the various temperature and time for the manufacturing of BiMnO3 using Ball Milling and study it though characterization techniques.
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HONOURS AND ACHIEVEMENTS

UNNAT BHARAT ABHIYAN (UBA) MEMBER

UBA is the initiative of of the HRD ministry of government of India in which a group of college students helps in the development of the educational institution and creating awareness about the government policies to the villagers.
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B.Tech Activities

- Awarded 2nd prize in *Meta Quiz* at Metallurgical Fest **Utkarshan-2017**.
- Awarded 2nd prize in *Avartita* at Metallurgical Fest **Utkarshan-2017**.
- Participated in the National Science Exhibition *VIGYAAN* of **AAVARTAN'17**.
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EXTRA-CURRICULAR ACTIVITIES

Hobbies

Running a small baking business through Instagram.

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