

# Vedasri Bai Khavala

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- CONTACT INFORMATION** NAC #218, Department of Metallurgical and Materials Engineering, Indian Institute of Technology Madras, Chennai - 600036  
**Mobile:** +91-8552058285, **Email:** vkhavala97@gmail.com
- EDUCATION** **Indian Institute of Technology Madras (IITM)**, Chennai, India.
- B.Tech Final Year., Metallurgical and Materials Engineering, (July 2018 - May 2019)
    - Thesis: *Studies on the measurement of nonconfigurational entropy of HEAs*
    - Advisor: Prof. B.S. Murty
    - YGPA: 9.65
- Visvesvaraya National Institute of Technology(VNIT)**, Nagpur, India.
- B.Tech (1-3 Years)., Metallurgy and Materials Engineering, (2015 - 2018)
    - CGPA: 9.45
- PUBLICATIONS/ CONFERENCE PRESENTATIONS** **•Vedasri Bai Khavala**, Gurudev Tadas, Vaibhav Sharma, Suresh Bandi and Ajeet Srivastav.  $Ti^{3+}$  Self – doped  $TiO_2$  for Photocatalytic Applications, Recent Advances in Materials for Sustainable Energy (RAMSE-2018),3-5, March 2018, Dhanbad, India (Poster presentation)
- RESEARCH EXPERIENCE** **AlCoCrFeNi high entropy alloy system for thermal barrier coating applications** (May 2017 - July 2017)
  - Synthesis and microstructural characterization of AlCoCrFeNi and  $Al_{2.5}CoCr_2FeNi_{1.5}$  as potential Bond Coat materials
  - Examination of oxidation behaviour using interrupted oxidation techniqueSupervisor: Dr.Ravisankar Kottada (IITM)
- Self doped  $TiO_2$  for photocatalytic applications** (September 2017 - April 2018)
  - Synthesis of black  $TiO_2$  nanotubes using  $TiCl_3$  as a precursor and characterization using XRDSupervisor: Dr.Ajeet Srivastav (VNIT)
- SCHOLASTIC ACHIEVEMENTS**
  - Secured **Rank 2** in the Department of Metallurgical and Materials Engineering during undergraduate
  - Secured the First Place in Industry Defined Problem (IDP) at Amalgam, IITM,2018
  - Selected for Ministry of Steel fellowship 2018
  - Secured the Second Place in Industry Defined Problem (IDP) at Amalgam, IITM, 2017
  - Awarded OP Jindal Engineering and Management Scholarships (OPJEMS) in 2016 along with 80 Engineering students across India
  - Chemistry School Topper in CBSE 2015 (99/100)
- RELEVANT COURSES**
  - Atomistic Modelling of Materials
  - X-ray Diffraction (NPTEL)
  - Grain Boundaries and interfaces
  - Fundamentals of Defects in Materials
- EXPERIMENTAL SKILLS**
  - **Software** : FullProf Suite 3.00 (Rietveld Analysis), HighScoreplus Version 3 and 4.1, MatLab<sup>©</sup>, OriginPro 9.0 SR1, Quantum Espresso Version 6