

Vishal Sharma

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LinkedIn <https://www.linkedin.com/in/vishalsharmaofficial/>

GitHub <https://github.com/vxsharma-14>

Skills & Techniques

Database Management:	MySQL, PostgreSQL, IBM Db2
Data Collection:	BeautifulSoup, Web APIs
Data Wrangling & Analytics:	Python, NumPy, pandas, MS Excel
Data Visualization:	matplotlib, seaborn, MS Excel, Tableau, Plotly Dash
Machine Learning:	scikit-learn, TensorFlow
Office Tools:	Microsoft Suite, Google Suite, Zotero Research Management
Code Asset Management:	GitHub, Git
Development Environments:	Jupyter Notebook, PyCharm IDE, VS Code, Spyder

Professional Appointments

June 2020 – Present	Founder & Principal Consultant <i>SARDA DataWorks, Noida, UP, India</i>
June 2020 – Mar 2021	Postdoctoral Research Associate <i>Texas A&M University, College Station, TX, USA</i>
Aug 2016 – May 2020	Research Assistant <i>Wichita State University, Wichita, KS, USA</i>
June 2015 – Aug 2017	Graduate Assistant <i>Wichita State University Libraries, Wichita, KS, USA</i>
Dec 2013 – May 2014	Research Intern in Car HVAC <i>Sanden Vikas India Limited, Faridabad, India</i>
May 2013 – July 2013	Summer Intern <i>Tata Motors Limited, Sanand, India</i>
Aug 2011 – Mar 2012	Trade Finance Analyst <i>Yes Bank Limited, Gurgaon, India</i>
Aug 2009 – Aug 2011	Trade Finance Analyst <i>ICICI Bank Limited, Mumbai, India</i>

Certifications

- **IBM Professional Certificate in Data Science**
Issued by – Coursera

Education

- Aug 2014 – May 2020** **Wichita State University, Wichita, KS, USA**
The Department of Aerospace Engineering
Doctor of Philosophy
Dissertation Supervisor: Professor Klaus A. Hoffmann
Dissertation title: “Numerical Solution of Maxwell’s equations on transformed coordinates for non-rectangular electromagnetic applications”
- Aug 2012 – June 2014** **Amity University, Noida, India**
The Department of Mechanical Engineering
Master of Technology
Thesis Advisor: Professor Vivek Kumar
Thesis title: Thermal Modeling of Passenger Cars: Heating and Cooling of Cabin
Academic Achievements:
- Passed with Distinction degree
 - Awarded “Best Summer Internship Project”
- Aug 2004 – June 2008** **Rajiv Gandhi Technological University, Bhopal, India**
The Department of Mechanical Engineering
Bachelor of Engineering

Publications and Presentations

- Sharma, V., and Hoffmann, K.A., “[Solution of Maxwell’s Equations Using Fourth-Order Modified Runge-Kutta Scheme on Transformed Coordinates](#),” *2020 AIAA SciTech Forum*, Orlando FL, AIAA 2020-2155, January 2020.
- Sharma, V., and Hoffmann, K.A., “[Solution of Maxwell’s Equations for Non-Rectangular Electromagnetic Applications](#),” *AIAA Journal of Thermophysics and Heat Transfer*, Published Online 18 September 2020.

Awards & Grants

- September 2019** **Special Research Fellowships – Student Travel**
Awarded by - Graduate School, Wichita, State University, Wichita, KS
- November 2019** **Conference Travel Grant**
Awarded by - Student Government Association, Wichita, State University, Wichita, KS
- May 2017** **2017 Lee and Carolyn Riley Distinguished Graduate Assistantship**
Awarded by - Wichita State University Libraries, Wichita, KS
- Jan 2017** **Shocker Innovation Corps Grant**
Awarded by - WSU Ventures and National Science Foundation (NSF) I-Corps

Professional Affiliations

Member, American Institute of Aeronautics and Astronautics (AIAA)