

# Achyut Tiwari

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<b>EXPERIENCE</b>	<b>TATA Consultancy Services</b> , Bangalore, Karnataka, India <ul style="list-style-type: none"><li>Systems Engineer</li></ul>	Oct 2023 – Current
<b>EDUCATION</b>	<b>Jaypee University of Information Technology</b> , Solan, Himachal Pradesh, India B.Tech in Computer Science and Engineering <ul style="list-style-type: none"><li>Cumulative GPA: 7.9/10</li></ul> <b>Saint Xavier's Senior Secondary School</b> , Hardoi, Uttar Pradesh, India <ul style="list-style-type: none"><li>10+2 in PCM with Computer Science</li><li>Chairman of Disciplinary Committee.</li></ul>	Jul 2019 – May 2023 May 2016 – May 2018
<b>INTERNSHIP EXPERIENCE</b>	<b>SynchSoft Technologies</b> , UP, India <ul style="list-style-type: none"><li>Devops Intern, Production Team</li><li>Orchestrated CI/CD for diverse projects.</li><li>Dockerized web &amp; Android apps; managed via Kubernetes.</li></ul>	Jun 2022 – Jul 2022
<b>PUBLICATIONS</b>	<b>JOURNALS</b> <ul style="list-style-type: none"><li>[1] <a href="#">A. Tiwari</a>, A. Chugh, and A. Sharma, "Ensemble framework for cardiovascular disease prediction," <i>Journal of Computers in Biology and Medicine</i>, Vol. 146, May 2022 [Impact Factor- 7.7]</li><li>[2] <a href="#">A. Tiwari</a>, A.K. Gupta and T. Gupta, "A Robust Approach to Shear Strength Prediction of Reinforced Concrete Deep Beams using Ensemble Learning with SHAP Interpretability," <i>Soft Computing</i>, 1-23 Dec 2023 [Impact Factor- 4.1].</li><li>[3] A. Gupta, S. Gowda, <a href="#">A. Tiwari</a> and T. Gupta, "XGBoost-SHAP Framework for Asphalt Pavement Condition Evaluation," Sep 2023 [Under Review].</li><li>[4] R. Mohana, <a href="#">A. Tiwari</a>, A. Pachauri and A. Sharma, "Intelligent Load Balancing of User Requests from IoT Devices in a Fog Environment," Mar 2023 [Under Review].</li></ul> <b>PATENT</b> <ul style="list-style-type: none"><li>[1] A.K. Gupta, and <a href="#">A. Tiwari</a>, "Unified Pavement Condition Assessment System," <i>Indian Patent</i>, Application Number: 202311079226, Status- Published, Dec 2023 .</li></ul> <b>BOOK CHAPTER(S)</b> <ul style="list-style-type: none"><li>[1] <a href="#">A. Tiwari</a>, A. Chugh, and A. Sharma, "Uses of artificial intelligence with human-computer interaction in psychology, in: Innovations in Artificial Intelligence and Human-Computer Interaction in the Digital Era ," <i>Intelligent Data-Centric Systems, Academic Press, 2023, pp. 173–205.</i>, Jul 2023 .</li></ul> <b>OTHERS</b> <ul style="list-style-type: none"><li>[1] <a href="#">A. Tiwari</a>, V.K. Sehgal, and S. Sharma, "Jaypee University of Information Technology Siam Student chapter celebrates successful establishment. ", SIAM News. May 2023.</li><li>[2] <a href="#">A. Tiwari</a> and Ashok Kumar Gupta, "Ensemble Learning for Structure Longevity", SIAM News. Sep 2023.</li></ul>	
<b>AWARDS &amp; HONOURS</b>	<ul style="list-style-type: none"><li>Society for Industrial &amp; Applied Mathematics (SIAM) Travel Awards(Funding)–\$800</li><li>Honorary President &amp; Chairman of SIAM JUIT</li></ul>	Nov 2022 Feb 2023
<b>PROJECTS</b>	<ul style="list-style-type: none"><li>Cloud Continuous Delivery of Micro-services</li></ul>	Jan 2022 – Jun 2022

Aug 2019 – Nov 2019

- Soldier Strap
  - Built Soldier Strap using multiple Internet of Things devices.
  - Explored future scope of the concept with respect to encryption.

**PROFESSIONAL AFFILIATIONS**

**Society for Industrial & Applied Mathematics,**  
Philadelphia, PA 19104 USA

- Nominated Member- 020990506 2022 – Present

**Association for Computing Machinery,**  
New York, NY, USA

- Member- 5377283 2022 – Present

**CAMPUS ACTIVITIES**

**Society for Industrial & Applied Mathematics,** Jaypee University of Information Technology

- Founding President Sep 2022 – Feb 2023
  - Chairman of the Executive Committee. Founded the 6th SIAM Student Chapter of India.
  - Increased SIAM members from 5 to 70.
  - Started Distinguished Speaker Seminar under SIAM Lecture Initiative.
  - Represented the chapter on multiple International forums.

**Alumni Committee,** Jaypee University of Information Technology

- Secretary Oct 2021 – Apr 2022
  - Headed various JUIT alumni affairs division tasks including hosting various Alumni Talks.
  - Increased Placement offers by 10% in year 2022-23.
  - Proposed Distinguished Alumni Awards to the Academic Council.

**Procurement & Event Management Committee,** Jaypee University of Information Technology

- Coordinator Oct 2021 – Sep 2022
  - Headed Procurement, Sanctions & Event Management for the official student governing body
  - Procured Items worth of 5 lakh INR.

**LANGUAGES**

- Hindi: Native language.
- English: Fluent (speaking, reading, writing).

**SKILLS**

L<sup>A</sup>T<sub>E</sub>X, Python, CPP, SQL, Kubernetes, Docker, Adobe Photoshop, Machine Learning, OOPS.

**INTERESTS**

Indic History, Linguistics, Economics.

**REFERENCES**

- **Prof. (Dr.) Ashok Kumar Gupta**  
Professor & Dean (Academics & Research) at the Jaypee University of Information Technology  
Email: ashok.gupta@juit.ac.in
- **Prof. (Dr.) Vivek Kumar Sehgal**  
Professor & HoD of Computer Science & IT at the Jaypee University of Information Technology  
Email: vivek.sehgal@juit.ac.in
- **Dr. Aman Sharma**  
Assitant Professor of Computer Science at the Jaypee University of Information Technology  
Email: aman.sharma@juit.ac.in
- **Dr. Ravindara Bhatt**  
Associate Professor of Computer Science at the Jaypee University of Information Technology  
Email: ravindara.bhatt@juit.ac.in

[CV compiled on 2024-02-09 for IISc]