

# JAYENDRA KUMAR

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## EDUCATION

### Bachelor of Technology

IIT Kanpur

Major in **Electrical Engineering**

Second Major in Mechanical Engineering

Minor in **Machine Learning & Applications**

Minor in **Algorithms**

Jul 2014 - Jun 2019

## WORK EXPERIENCE

### Member of Technical Staff - II, VMware HCX

VMware, Bengaluru

Jul 2019 - Present

- Back-end developer in the Migration team of VMware HCX: an application mobility platform designed for simplifying application migration, re-balancing workloads, and optimizing disaster recovery across data centers and cloud.
- Work: New feature development and code maintenance for HCX migration workflows.
- Technology used: Java, maven, MongoDB, Kafka, Zookeeper, Git, vSphere, VMC (VMware Cloud on AWS)
- Ownership: Bulk (vSphere Replication) migration and RAV (Replication Assisted vMotion) migration services.
- Leadership initiatives:
  - Supervising an intern undergoing 6 months internship from Jan'21 to present.
  - Conducted knowledge transfer sessions for all new hires in team from May'20 to present.

### Machine Learning Intern

Camp K12 (an ed-tech firm), Gurugram

May 2018 - Jul 2018

- Research on NLP and Computer-vision solutions to improve the firm's product offerings, better target consumers.
- Designed and deployed an RNN based auto-tagger for the firm's mentor-match program and an auto-tagger for firm's Ethereum-queries forum.

## RELEVANT PROJECTS

### Visual Question Answering

academic project: Natural Language Processing

Jan 2018 - Apr 2018

- A machine learning group project for answering questions based on a shown image.
- Explored variety of techniques including the state of art approach and implemented three different models: Joint embedding model with attention on image, Bayesian model and a novel generative deep-Bayesian model.

### An Efficient Full-frame Video Stabilization based on Feature Matching

academic project: Modeling and Representation techniques for Images

Jan 2018 - Apr 2018

- A project utilizing feature matching technique instead of mainstream optical flow technique for video stabilization.
- Subsequent parts of project included motion estimation, motion smoothing and image composition.

## LANGUAGES AND RELEVANT COURSEWORK

C, **C++**, Python, Java

Data Structures & Algorithms, Algorithms - II, Parallel Algorithms

Intro to Machine Learning, Intro to NLP, Modeling & Representation techniques for Images

Intro to Quantitative Statistics using R, Probability & Statistics, Linear Algebra & ODE

## OTHER SCHOLASTIC ACHIEVEMENTS AND POSITIONS OF RESPONSIBILITY

Secured **All India Rank 06** in NIFT B. ftech. entrance exam.

2014

Received Certificate of Merit from CBSE in Class 10.

**Coordinator, Creative Cell, Show Management, 51st Inter-IIT Sports Meet**

2016

**Executive Design, Cultural Council, Student Gymkhana, IIT Kanpur**

2015-2016

**Webmaster, Cultural Council, Student Gymkhana, IIT Kanpur**

2015-2016