

**AJAY LAXMAN KOLI**

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## **Education**

### **Diploma in Industrial Electronics**

From Shree Bhagubhai Mafatlal Polytechnic Vile Parle Mumbai in year 2000

### **N.C.T.V.T. (Apprenticeship in Electronics)**

From Mazgon Dock Ltd. Mumbai in year 1994

### **N.C.V.T. (Radio And TV)**

From Bombay I.T.I. in year 1993

### **S.S.C. (Maharashtra Board)**

From C.L. Boys Highschool Dadar Mumbai in Year 1991

## **Courses Attended/Completed**

Computer hardware (year 1995 Essem computers Dadar)

Computer networks (year 1998 Format Computers Mahim)

8085 Programming (year 1999 A. T. C. Chembur Mumbai)

8051 / 89c51 Programming (year 1999 at S.B.M.P. Vile Parle)

Mathematics by Shakuntala Devi (year 2005)

Cisco 640-841 IPV 4 (year 2007 at IP Solutions Dadar)

Caesar cipher and Cryptography

## **Publications**

“**Drommer: Drone with jammer**” Pensee International Journal, vol. 50, no. 12, pp. 443–448, 2020 (now removed) Mayank Tanna , Aditya Alexander Job, Nimisha Bhoir , Vaibhav Godbole , Ajay Koli

### **Predicting Weekly Fishing Concentration Zones through Deep Learning Integration of Heterogeneous Environmental Spatial Datasets**

Chaitanya Rele, Aditya Rathod, Kaustubh Natu, Saurabh Kulkarni, Ajay Koli, Swapnali Makdey

Subjects: Machine Learning (cs.LG); Artificial Intelligence ([cs.AI](#))

Cite as: arXiv:2511.02887 [[cs.LG](#)]

<https://doi.org/10.48550/arXiv.2511.02887>

Submission history

From: Chaitanya Rele

[v1] Tue, 4 Nov 2025 13:48:53 UTC (3,435 KB)

## Experience

Feb 2005 to date

Working as **Sr. Lab Assistant** in the Department of Computer Engineering, Fr. CRCE

### Responsibilities

Handling of e-Mac, Mac Mini, Sun Ray (Diskless) and IBM Computer Labs.

Installation of OsX 10.3, 10.7 , 10.8

Installation of OsX Application Softwares  
(Flash, Photoshop cs, Text Edit, Scilab, Vlc, Eclipse, Etc..)

Networking of E-Mac, MacMini

Installation of (Linux En4, En5, Ubuntu, Fedora Core, Suse) on IBM eq. Pc

Installation of Linux, Ubuntu Application Softwares (Matlab,  
Open Office, ns2, etc..)

Installation of Windows Os (98, 2000, xp, 7, 10, 11) on IBM eq. Pc

Installation of Windows Application Softwares.

LAN troubleshooting.

Installation and Troubleshooting of Network Switches (D-Link, 3-com, etc..), Patch-Panels, Wireless Routers (D-Link, Netgear,etc..),

Installation and Troubleshooting of Printers (hp-Deskjet, Laserjet, Hp all in one printer, Scanners(Hp), Epson-DotMatrix Etc..)

E-mac, Mac-mini, IBM eq, Machine Maintenance &  
Troubleshooting (Clint side).

Electronics Circuit Maintenance.

Computer Lab Setup for Room No 209 (Sun), Internet center, Library, Room no 702, 703, 704, 708-709, 710, 711-712, 611, 601, 602, 603, 604, 609, 611

Manage and Maintain the computers in the labs along with network preparation for practical exams.

Invigilation Exam Duty as an when given by exam cell.

Proctor IIM CAT 2009.

Involved in the documentation work of NBA and NAAC at the institute

BARC Project work.

Project In-charge of Project Cell and IEDC

Technical Support for Common Admission Process (CAP) rounds in the institute every year.

Technical Support for all Google Developer Students Club (GDSE) Hackathons.

Technical Support for all Student Council Hackathons.

Technical Support for various technical activities Conducted by the Department of Computer Engineering, Fr. CRCE.

Involved in IRG activities for the college.

Member of technical team for setup and handling of **AI and ML Server**.

Member of technical team for laboratory set-up activities for the Advance ATAL Faculty Development Program (FDP) on “**Navigating the Future of Decentralized Advance Blockchain Technologies**” conducted from 9th to 21st December 2024. Conducted by the Department of Computer Engineering, Fr. CRCE.

Member of technical team for laboratory set-up activities for the Advance ATAL Faculty Development Program (FDP) on “**Blockchain Technology: Its Architecture and Applications**” conducted from 4th to 9th December 2023. Conducted by the Department of Computer Engineering, Fr. CRCE.

Completed the 3 days **Faculty Development Program on Enterprise Blockchain Using Ethereum & Hyperledger Fabric organized under IDS** from 5th January 2026 to 7th January 2026. Conducted by the Department of Computer Engineering, Fr. CRCE.

April 2004 to Jan 2005  
Paras Data Products, Riddhi Siddhi Apt, Reti Bandar Rd.,  
Mulund (e), Mumbai

**As Hardware And Network Engineer.**

Responsibilities

Installation and Maintenance of Win 98, 2000 and XP based systems

Installation and Maintenance of P to P Networks.

Card level Pc Maintenance.

LAN (Rj-45) Cabling / Crimping and Troubleshooting.

Feb 2001 to March 2004  
PC Station, Subhdra Niwas, Worli Village, Mumbai

**AS a Hardware And Network Engineer.**

Responsibilities

Created and handled win98 and win 2k based P to P Network for cyber café.

Card level PC Maintenance.

Jan 1998 to Jan 2000.  
Computrac Electronics, Almunaz Arcade, Andheri (w), Mumbai

**As a Hardware And Network Engineer.**

Responsibilities

Maintenance of Mono and Color Monitors, DOT and DJ Printers.

Card level PC Maintenance.

Installation of IBM eq. Pc.

Sept 1995 to Sept 1997.  
ESSEM Computers, Ram Maruti Rd. Dadar (w) Mumbai.

### **As a Hardware Engineer.**

#### Responsibilities

Maintenance of Siemens Power supplies, Siemens Dc to Dc converters.

Maintenance of Mono and Color Monitors, DOT Printers.

Card level Pc Maintenance.

Installation of IBM eq. Pc.

#### **Known Computer Software/ Languages**

Basics of C, Basics of Python Html, AutoCAD 10, 14, 2000, Basics Of Photoshop Cs, Basics Of Corel Draw 11, Flash Mx 2004, Dreamweaver Mx 2004, Basics Of Matlab 2008, Keil For 89c51 With Flash Magic, Ulead Video Studio Express 10 & 11, Goldwave Audio Editor / Recorder, Ms Office (Word, Excel, Power-Point)

#### **Known Computer Operating systems**

Apple Mac Os 9, Os X 10.3, Os X 10.4  
Linux REDHAT En 4 & 5, Fedora, Suse, Ubuntu  
Sun Solaris 9  
Microsoft Dos 6.22, Win 95, Win 98, Win 2000, Win Xp, Win Vista, Win 7, Win 10, Win 11

#### **Projects**

Reverse Engineering on Tas 100 (Thermal Analyzer Station) Regaku Japan  
Sound Level Meter using 89c51

#### **Tech Support for Completed Projects**

Deploying and researching Hadoop in virtual Machines (2013-2014)

Path Tracking of Surveillance Robot (2013-2014)

Glove Mouse (2012-2013)

Cloud Computing using Eucalyptus and Google App Engine as Platform (2012-2013)

Air Pollution Monitoring System (2012-2013)

Bus Surveillance System (2012-2013)

Programmable Logic Controller Based Scada (2012-2013)

Warehouse Management Using RFID (2012-2013)

Navigation Control And Data Acquisition System for An Unmanned Aerial Vehicle (For Aero 2013)  
(2012-2013)

Data Acquisition And Analysis of Marine Population And Ocean Temperatures using GPS  
Technology (2011-2012)

Electric Bicycle (2011-2012)

Road Traffic Control Using Image Processing (2011-2012)

Surveillance System In Naxal Affected Areas (2011-2012)

Healthcare Management Using RFID (2011-2012)

Unmanned Aerial Vehicle (2011-2012)

Design and Implementation of a Prototype Anthropomorphic Mimicking Robotic Hand Arm  
(2011-2012)

An FPGA Based Test Simulator For Programmable Logic Controller (2011-2012)

GSM Based Wireless Notice Board (2011-2012)

Spinning LED Display (2011-2012)

3-D Led Cube (2011-2012)

Industrial Control And Monitoring Using GSM and IVRS (2011-2012)

Automatic Railway Gate Controller (2011-2012)

Microcontroller Based Solar Tracking System (2011-2012)

GSM Based Flood Alerting System (2011-2012)

Gesture Sensing Vehicle (2011-2012)

Acoustic Data Modem (2010-2011)

Intelligent Traffic Sensor, Patrol and Emergency Management (2010-2011)

ECG Measurement And Analysis (2009-2010)

RFID Based Bus Stop Automation (2009-2010)

Smart Refrigerator (2009-2010)

Multipoint Temperature Monitoring System (2006-2007)