

AKSHITA SACHDEVA

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OBJECTIVE

I am a Technology Enthusiast with the vision to empower each and every individual with enhanced, affordable and accessible healthcare using engineering, design and technology. My past work is focused on Image Processing, Computer Vision and Machine Learning to develop med-tech solutions that enable early diagnosis of chronic diseases and offer digital assistance for incurable ones using mobile and wearable computing.

EDUCATION

B.Tech | Computer Science & Engineering | Manav Rachna College of Engineering | July 2016 | Percentage: 74%
Class 12 | Modern Vidya Niketan, Sector -17 | July 2012 | Percentage: 89%
Class 10 | St. Peter's School | July 2010 | CGPA: 10/10

WORK EXPERIENCE

Co-Founder & Software Lead | [Griwaditi](#) | July 2016 - August 2017

- Worked on the development of Griwaditi Mobile Phone Application that diagnoses Cervical Cancer using Image Processing, Machine Learning and Convolutional Neural Networks

Android Developer Intern | HCL CDC, Noida | February - June 2016

- Developed Konvene, an Android Application that makes Photo Sharing Simple, Private and Automatic

PROJECT EXPERIENCE

[Griwaditi](#) | Software Lead

Manav Rachna College of Engineering, Faridabad | July 2016 – Present

- An automated, non-invasive and easily accessible screening tool for Cervical Cancer which comprises of a point-of-care Portable Imaging Device and a unique Cervical Cancer Lesion Detection Algorithm.

[Konvene](#) | Application Developer

HCL CDC, Noida | February 2016 – June 2016

- Android phone application that aims to make the process of sharing images simple, private and automatic.

[MRaftaar](#) | Application Developer

Manav Rachna College of Engineering, Faridabad | October 2015

- Windows Phone Application to curb Traffic Rule Violations using Cloud Computing.

[Shwaas](#) | Application Developer

Manav Rachna College of Engineering, Faridabad | September 2015

- Portable, smartphone Breathalyzer that analyzes Blood Alcohol Content and helps prevent accidents.

[Manovue](#) | Software Lead

Manav Rachna College of Engineering, Faridabad | February 2015 – August 2015

- World's First Intelligent Personal Assistant device for the blind and visually impaired that helps them move outside well-known environments, read any kind of printed text and access smartphone using their voice.

Tranquil | Software Lead

Manav Rachna College of Engineering, Faridabad | Currently Under Research

- Aims to detect depression using FACS, Image Processing and Speech-Tone Analysis. Tranquil will help reduce depression through mobile psychotherapy using Virtual agents as well as psychology experts.

Smart Library Automation System | Java Application Developer

Manav Rachna College of Engineering, Faridabad | December 2014 – January 2015

- Automated system that uses RFID technology for real-time tracking of books to make Library experience easy, comfortable and fast.

Library Management System | Software Developer

Manav Rachna College of Engineering, Faridabad | June 2014

- Library management system developed using C++.

Casino Game Project | Software Developer

Manav Rachna College of Engineering, Faridabad | June 2013

- Multi-player Casino Gaming Experience developed using C.

PAPER PRESENTATIONS

MRAFTAAR | National Conference on Emerging Trends in Electronics and Telecommunication Engineering (ETIETE -2016)

- The paper presents a remedy for curbing Traffic Rule Violations using Cloud Computing through a Mobile Phone Application called 'MRaftaar'. The genesis of the paper comes from Large Number of Accidents and Congestion on Roads causing problems to the general public

TECHNICAL SKILLS

- Programming Languages: C, C++, Java, C# (.net framework), Python, SQL
- Designing Languages: JavaScript, HTML, CSS, XML, UI/UX Design, Material Design
- Development Skills: Android Apps, Windows Phone & Web Apps, Java Applications, .NET Applications
- Hardware: Arduino, Raspberry pi, IR Sensors, Ultrasonic Sensors, Bluetooth HC-05, Rapid Prototyping
- Operating Systems: Unix, Windows, Raspbian (Raspberry Pi), Windows 10 IOT Core (Raspberry Pi)
- Tools: Microsoft Visual Studio, NetBeans IDE 6.8, Turbo C++, Monodevelop, Eclipse, Android Studio, Adobe Photoshop, Arduino IDE
- Technologies: Internet of Things, OpenCV, Machine Learning, Cloud Computing, Image Processing, Computer Vision, Text-to-Speech, Microsoft Azure

SCHOLASTIC ACHIEVEMENTS

- **Top 8 Women Empowerment Ventures** | Vodafone Accelerator F>>Lane | Sep 2017 | 'Griwaditi'
- Fab International Female Entrepreneur Award | Sexy & Wealthy in Heels | May 2017 | 'Griwaditi'
- UI/UX Champion | TechGig Geek Goddess | March 2017
- Young Innovator Award – Open Section | MeltingPot 2020 Innovation Summit | Nov 2016
- **World Finalist** | Yahoo's Hack the Status Quo Hackathon | Oct 2016 | 'Konvene'
- Jury's Choice Award | Yahoo Accenture Innovation Jockeys Season 5 | Oct 2016 | 'Griwaditi'
- **Top 10 Projects** | 'Techniche' Techno-Management Fest, IIT Guwahati | Sep 2016 | 'Shwaas'
- Outstanding Achiever's Award | Manav Rachna College of Engineering | June 2016
- **Star Women Achiever Award** | Accenture | March 2016
- Cognitive Computing & IOT Award | Yahoo Accenture Innovation Jockeys Season 4 | Oct 2015 | 'Manovue'
- World Finalist | Microsoft Imagine Cup | July 2015 | 'Manovue'
- Torchbearer Award | Manav Rachna College of Engineering | July 2015
- Grand Winner | Microsoft Imagine Cup India | April 2015 | 'Manovue'

SUMMITS, WORKSHOPS & CONFERENCES

- **Delegate** | MeltingPot 2020 Innovation Summit | Nov 2016
- **Delegate** | Young Innovators Festival | Manav Rachna Educational Institutions | Nov 2016
- **Delegate** | Bangladesh Youth Leadership Summit, Dhaka | August 2016
- **Paper Presenter** | National Conference on Emerging Trends & Innovations in Electronics & Telecommunications Engineering | June 2016
- **Participant** | 'Innovating for Billions' Workshop | MIT Media Lab & TCS | Jan 2016
- **Participant** | Infosys Campus Connect Business Communication and Teamwork Program | Manav Rachna University | June 2015
- **Runner-up** | Short-film making | INNOBIZ'14 | Manav Rachna Innovation and Incubation Centre | Nov 2014
- **Participant** | Appstract 1.0 – Android App Development Programme | Manav Rachna University | Oct 2014