

## EDUCATION

### UNIVERSITY OF EDINBURGH

MSC IN ARTIFICIAL INTELLIGENCE | DISTINCTION (EXPECTED)

Edinburgh, U.K.  
Sep 2018 – Present

### UNIVERSITY OF BRISTOL

MENG IN COMPUTER SCIENCE & ELECTRONICS | UPPER SECOND CLASS HONOURS (2:1)

Bristol, U.K.  
2012 – 2016

### THE ASSAM VALLEY SCHOOL

INDIAN SCHOOL CERTIFICATE (EQUIVALENT TO U.K. A LEVELS) | GRADE: 91%

Assam, India  
2010 – 2012

INDIAN CERTIFICATE OF SECONDARY EDUCATION (EQUIVALENT TO U.K. GCSE) | GRADE: 89%

2004 – 2010

## EXPERIENCE

### HCL TECHNOLOGIES

SOFTWARE ENGINEER | BUSINESS SERVICES AI/ML TEAM

New Delhi, India  
Oct 2017 – Jul 2018

- Researched and developed AI/ML products (PoCs and MVPs) for several HCL clients
- Designed signature localisation and offline verification system using deep learning techniques (YOLO and SigNet) for cheque, invoice, and form processing with an accuracy of 70%
- Researched techniques for one-shot learning and forgery detection using deep neural networks
- Involved in the entire data pipeline including data sourcing/collection, generation, annotation, cleaning, preprocessing, and iterative training, tuning, and model evaluation, data augmentation for training YOLOv3, and documentation

### RENISHAW PLC

RESEARCH ENGINEER | GROUP ENGINEERING TEAM

Wotton-under-Edge, U.K.  
Jan 2015 – Sep 2015

- Researched and built a prototype of a passive non-contact 3D scanner
- Designed, developed, and analysed a serial communication and PI control system, including low-level design synthesis
- Designed a .NET application to interface with the scanning system. Designed APIs to support EmguCV & MS SQL Server
- Optimised performance by implementing a multi-threaded design, and integrated support for MATLAB and GNU Octave to run image processing scripts using OLE Automation
- Drafted comprehensive documentation covering design and implementation details including software documentation. Involved in frequent code/design reviews and presentations with senior members of the team

### HIDDEN BRAINS INFOTECH

SOFTWARE ANALYST INTERN | PLANNING, ANALYSIS & PROTOTYPING TEAM

Ahmedabad, India  
Aug 2014 – Sep 2014

- Analysed client proposal documents, drafted software requirements specification (SRS), scope of work, business requirement, and database documents
- Designed UML models for several website and mobile application development projects
- Improved existing SRS documents to minimise development required reducing delivery time and costs

## SKILLS & ACHIEVEMENTS

### SKILLS

**PROGRAMMING:** C, C++, Java, Python, MATLAB, SQL, HTML, CSS, JavaScript, Haskell, Bash,  $\text{\LaTeX}$

**MACHINE LEARNING:** Predictive Modelling, Data Visualisation, Analytics, Feature Engineering, Computer Vision

**SOFTWARE ENGINEERING:** Agile (Scrum & Kanban), DevOps, TDD, CI/CD, Git, UML, Web & Mobile Development

**LANGUAGES:** English (Bilingual fluency), Hindi (Bilingual fluency), Assamese (Native fluency)

**INTERESTS:** Coding, Reading, Photography, Sports (Lawn Tennis, Squash & Football), Cooking/Baking, Travelling

### ACHIEVEMENTS

Selected for Facebook Analytics Academy 2018	2018
Dean's International Intern Scholarship Scheme (Nomination & honourable mention)	2014
Barry Thomas Scholarship for Computer Science	2012
Major Colours for Lawn Tennis and Photography, and Minor Colours for Squash	2008 – 2011
International Exchange Programme, Sydney	2010
Represented Assam at the Junior National Squash Championships, Ajmer	2007