

Arvind Mishra

Curriculum Vitae

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Work Experience

Major Project

Title *Smart conversational shopping assistant*

Description A conversational shopping assistant AI bot that helps user buy product at the best price from various providers. It remembers the user's preference and helps by giving recommendation. The bot uses NLP and Machine Learning for the conversational flow, Query optimisation and scaline decomposition for recommendation on incomplete dataset. The backend is based on django and processing is done via *scikit-learn* and *tensor Flow*. The dialog flow is based on *Google dialog flow*. Springer paper for the same will be available after approval

Paper

title **Alfred - Conversational Shopping AI bot**, NLP, QUERY OPTIMISATION, DIALOGFLOW.

A Springer paper published on conversational shopping assistant bot. *Springer paper* is under peer review. First draft of the [IEEE](#) paper

title **2FA authentication mechnaism**, MFA, 2FA, HASHING, TIMESTAMP.

A paper on python cryptographic hash function and use of multi-factor authentication in various standard libraries

title **SMBCRY exploit**, WANNACRY, SMB PROTOCOL, BUG.

WannaCry affected almost millions of computers. Using a simple exploit in the SBM protocol in CIFS (windows File server). A detailed study and simulating the whole process in a sandbox environment.

Projects and Internships

2018 **ABM & Brothers**, DROPLETS, DNS, DIGITAL OCEAN, LAMP.

Deployed a invoicePlan site for a Transport company named [ABM & Brothers](#) on digital Oceans.

project **Social Network**, FLASK SOCIAL NETWORK.

A social platform for giving feedback and texting other users

iOS **Fed-Or-Not-FedHead**, IOS UI BASIC.

iOS app for a Federer fans test. Just a basic quiz app. [github repo](#)

Text Summarize, NLTK, PYTHON.

A working Text news Summarizer. The project takes a the web address as an input and find the main content using Beautiful Soup BS4 and then gives user the summary of the page. Made in collaboration with [Payal Jain M.Tech.](#) GitHub repo -> [text Summarizer](#)

django **Learning Log**, DJANGO.

The app for the academics. Very useful for thesis and those who want to summarise their studies everyday. Automatic feeds from the amazon goodreads [Learning-log](#)

django **Django Blog**, DJANGO.

Blog using Django with MVC framework. My First website developed using a MVC framework. Learned how to configure and host on a heroku.

iOS **breakpoint**, IOS FIREBASE .

Simple iOS game with firebase as backend [Breakpoint app repo](#)

project **A do list app**, RUBY ON RAILS.

A to-do list app on ROR with very basic functionality for CRUD. Developed as a part of learning ROR.

2011–2016 **legfeet.com**, DNS, DOMAIN REGISTRATIONS, A-RECORDS.

I had a website - legfeet.com (- every thing at your feet), The Site was used as an ecommerce platform using woo-commerce. And have been maintaining it since then. Based on the Wordpress installation. The site was active for 8 years. I created the site in my 9th grade and was in production till 2016

project **Blog reader app**, IOS, JSON, WORDPRESS PLUGINS.

I have a website - [lyrianablog](#) The website contains poems and writings with good tone towards life as an adult. I needed an app for the same so users can view the same. A blog reader app reading the JSON from the site and rendering it same to the view was the way to go

Social welfare **offline wikipedia**, SQL DUMPS, CMS, WIKIMEDIA.

Wikipedia releases the content every day in form of tar files. They call it dumps. There's a method to make the site available offline. I used of the methods to provide offline Wikipedia in rural area for children. This was mentioned and verified by Teach for India. And even appreciated and was given internship for the same

blog **ghost**, SSL,BACKEND, DNS, A-RECORDS.

Ghost Blog for the custom domain [arvibd.me](#)

Certification

ADVANCED JAVA PROGRAMMING [Certificate](#)

LINUX [Linux Certificate](#)

[PYTHON, OPTIMISATIONS, GENERATORS] Optimizing Python Code [Python Code Optimisations](#)

[PYTHON, ITERTOOLS, COLLECTIONS] Python 3 [Python 3 STL Certificate](#)

[IOS, FIREBASE] [iOS Development with Firebase Certificate](#)

[JAVA 9, STREAMS, FUNCTIONAL PROGRAMMING] Functional Programming with Streams in Java 9 [Java 9 Certificate](#)

[MACHINE LEARNING, PYTHON, NUMPY] Building a Recommendation System with Python Machine Learning & AI [Certificate](#)

Programming Languages

Language	PYTHON, C++, JAVA
Markup	L ^A T _E X, HTML, CSS, MARKDOWN
VersionControl	GIT
Web	HTML, CSS
OS	WINDOWS, LINUX, MACOS, OPEN SOLARIS

Programming skills

algorithms	I am always aware of the performance runtimes and their impact on the systems. My Codechef profile. ML Algorithms [SVM, PCA, Logistic, ID3, Naive Bayes]
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Books and drafts

Poem	Some of the poems on self and topic that are close to my heart. The book is available at amazon
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Presentations

AlphaZero beamer	Deep mind alpha zero and the the brilliant use of the reinforcement Learning Algorithm AlphaZero presentation. Please have a look. A very informative and beautifully typeset in L ^A T _E X
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Achievements and Award

Jan – 2018	Top 1500 Rank in world - Codechef Jan Long Challenge - Jan Long
Oct – 2016	Bronze Medal in Hackerrank's Week of Code 24
Jun – 2017	Secured 2591 Rank in Snackdown 2017 Codechef Certificate
Innovation	Google Science Fair participation certificate for designing better alternative to electrical system and transportation system Certificate
Apr 06, 2017	Certificate of Excellence in PHP -Techgig
Running	From 125Kg in my second year to a fit 15KM 78 Kg Runner. It taught me importance of <i>discipline</i> in life than anything else. I am BLUE (ran more than 1000KM) runner on BLUE I complete 100KM run a month.

Interest

Competitive Programming	I am very much interested in solving problems. I compete on hackerrank and codechef and codeforces. I use git for my projects and all the projects mentioned are on the Github as a public repo. Excluding some, they are ongoing projects and are as a private repository of github. bitbucket
Chess	I like playing chess very much. Please visit my chess24 profile
Composition	I like composition and it's design impact. Photography